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ABSTRACT

The 10th annual Survey of Graduate Science and Engineering Students and Postdoctorates requested data from all institutions of higher education in the United States in which there was at least one science or engineering program leading to a master's or doctoral degree (separate forms for medical and health-related programs were included). These data are presented in detailed statistical tables provided in five parts labeled A-E. The first part includes summary data for all institutions, both doctorate- and master's-granting for fall 1981. The second part presents summary trend statistics for all institutions, 1975-1981. The third and fourth parts show trend data for doctorate-granting institutions (1974-1981) and master's-granting institutions (1975-1981). The tables in the last part present rankings of doctorate- and master's-granting institutions based on selected variables (including sex and race) as well as total departmental coverage for each year. Also provided are technical notes, classification of institutions, and copies of 1981 survey forms (together with survey instructions and summaries of institutional responses by broad science/engineering field, highest level of degree granted, and type of institution). (JN)

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general notes

This publication presents the data collected in the tenth annual Survey of Graduate Science and Engineering Students and Postdoctorates, which covered fall 1981. "Engineering" has been added to the name of the survey to indicate that it contains, and has since its inception, data on graduate engineering as well as science departments. The survey requested data from all institutions of higher education in the United States in which there was at least one science or engineering program leading to a master's or doctoral degree, and included separate forms for medical and other health-related programs. The survey data are presented in section III, subdivided into five parts labeled "A" through "E." Subsection "A" includes summary data for all institutions, both doctorate- and master's-granting, for fall 1981; subsection "B" presents summary trend statistics for all institutions, 1975 through 1981; and subsections "C" and "D" show trend data for doctorate-granting institutions, 1974 through 1981, and master's-granting institutions, 1975 through 1981, respectively. The tables in subsection "E" present rankings of doctorate- and master's-granting institutions based on selected variables, as well as total departmental coverage for each year.

Section IV presents copies of the fall 1981 survey forms (NSF forms 811 and 812), the survey instructions, and summaries of institutional responses by broad science/engineering (S/E) field, highest level of degree granted, and type of institution.

When any component of an institution, *e.g.*, branch campuses or schools of medicine, dentistry, etc., offers a program leading to the Ph. D. or equivalent (including first-professional degrees) in any S/E field, the entire institution is considered to be doctorate-granting in every year in which it offered such a program.

The phrase "institutional support" includes support to full-time graduate students receiving their main support from funds allocated to the institution by State or local governments as well as those whose funds originated from the institutions themselves. The residual category, "other U.S. sources," includes support from industrial firms, nonprofit institutions, and all other sources of support within the United States. Support from foreign industrial firms, as well as foreign governments, is included under "foreign sources."

The term "imputation" refers to a computerized process designed to generate estimates for data that the institutions themselves were unable to provide. The imputation program, as presently designed, generates estimates on the basis of key data items provided by the institution in earlier years, when available, or, for detailed data cells, on distributions derived from data provided by peer respondent departments in the same field offering the same level of degree. Prior-year item totals are inflated or deflated to reflect the growth or decline in the relevant variable reported by similar departments.

Data from the current year's tables should be used in reviewing historical information in this survey. Data presented in trend tables are assembled from the most recently completed survey cycle. Since prior-year data are reviewed for consistency with current-year responses and, when necessary, revised in consultation with institutional respondents, references to prior-year data should be restricted to this document.

Detailed data for the years 1974-81 are available on magnetic tape through the survey contractor, Abt Associates, Inc. Requests for a copy of the *Data User Guide* or for additional information on the survey findings, should be directed to Mr. J. G. Huckenpahler at the following address:

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section I

technical notes

the survey universe

The fall 1981 universe for the Survey of Graduate Science and Engineering Students and Postdoctorates (GSSP) consisted of all institutions of higher education in the United States that offered programs leading to a master's or doctoral degree in at least one science or engineering field, along with their branch campuses, schools of medicine, dentistry, nursing, public health, etc.; a total of 742 survey packages were mailed to 626 institutions. Of these, 139 were sent to medical schools associated with 324 doctorate-granting institutions. The remaining 302 were master's-granting institutions.

Data on graduate science/engineering (S/E) enrollment have been collected by the National Science Foundation (NSF) each year since 1967—for five years through the Graduate Traineeship Program and for the subsequent ten years through GSSP surveys. Because of the expansion of coverage, however, data for the 1967-73 period are not comparable with the totals for 1974 and later years. Table I-1 shows the number of institutions, reporting units, and departments included in the data base for each year from 1967 through 1981.

The number of departments in each broad S/E field and the full-time graduate S/E enrollment totals are shown in table I-2 and I-3 for doctorate- and master's-granting institutions, respectively. Data for doctorate-granting institutions are available for 1974 through 1981; data for master's-granting institutions are available for 1975 through 1977 and for 1979 through 1981. [Master's-level institutions were not included in the 1978 survey.]

Table I-1. The NSF data collection series: 1967-81

Year of series	Number of institutions surveyed	Number of reporting units surveyed	Number of departments		
			Total	Master's	Doctorate
A. Graduate Traineeship Program					
1967	209	NA	3,014	434	2,580
1968	219	NA	3,190	454	2,736
1969	224	NA	3,354	460	2,894
1970	227	NA	3,544	473	3,071
1971	224	249	3,397	407	2,990
B. Survey of Graduate Science Students and Postdoctorates[1]					
Doctorate institutions:					
1972[2]	260	328	4,593	780	3,813
1973	264	340	6,571	885	5,686
1974	282	370	7,498	1,394	6,104
1975	283	374	7,674	1,464	6,210
1976	291	382	7,659	1,461	6,198
1977	295	391	7,760	1,526	6,234
1978	313	421	7,989	1,649	6,340
1979	319	434	8,203	1,789	6,414
1980	327	440	8,342	1,824	6,518
1981[2]	324	438	8,530	1,951	6,579
Master's institutions:					
1975[3]	307	312	1,264	1,264	NA
1976	309	314	1,300	1,300	NA
1977	311	316	1,470	1,470	NA
1978[4]	1	1	15	15	NA
1979	314	316	1,443	1,443	NA
1980	303	307	1,397	1,397	NA
1981	302	304	1,424	1,424	NA

[1] The name of the survey has been changed to specify the inclusion of engineering.
[2] The 1972 survey of doctorate-granting institutions included selected data items for 1971.
[3] The 1976 survey of master's-granting institutions included selected data items for 1975.
[4] The 1978 survey did not include master's institutions. One institution was subsequently changed from doctorate- to master's-granting.

NOTE: NA—not applicable.

SOURCE: National Science Foundation

Table I-2. Number of graduate departments and full-time enrollment at doctorate-granting institutions by area of science/engineering: 1974-81

Area of science/ engineering	1974	1975	1976	1977	1978	1979	1980	1981
	Number of departments							
Total, all areas	7,498	7,659	7,780	7,989	8,203	8,342	8,530	8,493
Engineering	1,000	1,014	1,010	1,019	1,028	1,033	1,050	1,054
Physical sciences	507	519	504	504	514	514	523	523
Environmental sciences	254	258	263	268	275	276	278	284
Mathematical/computer sciences	380	391	309	404	415	427	455	454
Life sciences	4,063	4,161	4,217	4,381	4,504	4,588	4,664	4,619
Psychology	274	278	284	299	315	318	329	329
Social sciences	1,020	1,308	1,083	1,114	1,152	1,186	1,236	1,230
	Full-time enrollment							
Total, all areas	195,455	210,321	214,090	217,454	216,613	223,414	230,692	234,529
Engineering	33,681	37,139	36,583	37,185	37,539	39,925	42,481	45,366
Physical sciences	21,255	21,317	21,623	21,801	21,544	21,782	22,281	22,634
Environmental sciences	8,335	8,863	9,356	9,623	9,636	9,824	9,943	10,247
Mathematical/computer sciences	13,739	14,125	14,525	13,975	13,690	14,177	15,253	16,124
Life sciences	55,007	59,612	61,993	64,446	65,325	65,582	67,840	67,517
Psychology	18,889	19,696	21,431	21,225	20,648	20,695	21,574	21,470
Social sciences	44,549	49,519	48,579	49,199	48,231	50,429	51,320	51,171

SOURCE: National Science Foundation

Table I-3. Number of graduate departments and full-time enrollment at master's-granting institutions by area of science/engineering: 1975-77 and 1979-81[1]

Area of science/engineering	1975	1976	1977	1979	1980	1981
	Number of departments					
Total, all areas	1,264	1,300	1,470	1,443	1,397	1,424
Engineering	133	136	158	151	142	141
Physical sciences	170	173	189	172	158	154
Environmental sciences	44	49	53	53	55	55
Mathematical/computer sciences	148	151	170	166	156	162
Life sciences	288	297	348	353	353	369
Psychology	145	150	167	180	175	185
Social sciences	336	344	385	368	358	358
	Full-time enrollment					
Total, all areas	16,373	16,823	18,725	18,977	18,477	18,899
Engineering	730	733	890	1,049	1,126	1,295
Physical sciences	642	671	767	744	656	720
Environmental sciences	688	542	528	547	704	633
Mathematical/computer sciences	1,043	1,136	959	1,312	1,203	1,602
Life sciences	3,929	4,409	4,559	4,693	4,660	5,019
Psychology	4,398	4,162	4,443	5,127	5,099	5,227
Social sciences	4,943	5,170	6,579	5,505	5,029	4,403

[1] Master's institutions were not surveyed in 1978.

SOURCE: National Science Foundation

the survey instrument

The questionnaire used in the fall 1981 survey was identical in format to the fall 1980 questionnaire except for the addition of a question to the "comments" section requesting the number of hours required to complete the form and minor revisions to the instructions for the sake of clarity. A "crosswalk" was added to the survey packages, matching the S/E fields for which data are requested in the GSSP with the field codes devised by the National Center for Education Statistics (NCES) of the Department of Education, and published in *A Classification of Instructional Programs* (NCES 81-323). In addition, a flow chart was designed and included for the use of those institutions that have computerized data retrieval systems.

the method

Survey packages for the fall 1981 survey were mailed in February 1982. Each package consisted of a cover letter describing the survey system; a postcard to be returned by the institutional coordinator; a computer-produced form 811, List of Departments and Programs; a crosswalk showing NSF and NCES discipline codes; a return envelope, and a form 812 (Departmental Data Sheet) and flow chart for each department.

The postcard was to be filled out by the survey coordinator, acknowledging receipt of the questionnaire package and providing a name and telephone number for followup purposes, as well as an estimated completion date. Coordinators were also asked to indicate whether the data requested were available centrally or at the departmental level and whether responses were computerized or completed by hand. Of the 531 reporting units responding to this question, 10 percent relied entirely on a computerized central records system, an additional 4 percent had automated systems which relied on departmental input. The vast majority—73 percent--relied entirely on hand tabulations at the department level, while the remaining 13 percent used a combination of these mechanisms to provide data.

Form 811 consisted of general instructions for the institutional coordinator and an individualized listing of departments in each reporting unit included in the previous survey, along with totals for selected key items. Coordinators were asked to compare this listing with the current organizational structure at their institutions and to write on the form any changes that had occurred in the interim (new departments added, name changes, and departments closed, merged, or split since the previous survey). The corrected form 811 was then to be returned to the survey contractor for use as a check list. The

Departmental Data Sheets (form 812) were distributed to each department for completion and then reviewed for accuracy and consistency by the institutional coordinator.

Completed questionnaires were returned to the survey contractor for screening, computer processing, editing, and tabulation. Any errors, inconsistencies, or unexplained sharp fluctuations from the previous year were brought to the attention of the institutional coordinators for resolution.

the response rate

Of the 9,917 departments surveyed in 1981, 8,594, or 87 percent, returned complete responses. For the remaining 1,323 departments (710 total nonrespondent departments and 613 partial nonrespondents), data were machine-imputed using the methodologies described in the General Notes. Beginning in 1980, the computerized imputation program generated data for all nonrespondents; in prior years, imputation was performed only on those departments for which data were available in earlier years.

The numbers of totally or partially nonrespondent departments and the numbers of full- and part-time graduate students and postdoctorates imputed for these departments are shown in tables I-4 and I-5 for doctorate-granting institutions, and in tables I-6 and I-7 for master's-granting institutions. At each degree level, totals, numbers imputed, and proportion imputed are shown for each broad area of science/engineering.

Table I-4. Imputation for nonresponse at doctorate-granting institutions by area of science/engineering and enrollment status: 1981

Area of science/ engineering	Number of graduate departments		Total in survey			Number imputed			Imputation rate (percent)		
	In universe	Imputed	Full time	Part time	Post doctorates	Full time	Part time	Post doctorates	Full time	Part time	Post doctorates
Total, all areas	8,493	979	234,529	105,674	19,655	21,563	13,263	2,669	9.2	12.6	13.6
Engineering	1,054	131	45,366	31,620	1,031	4,269	3,456	88	9.4	10.9	8.5
Physical sciences	523	50	22,634	3,174	4,452	1,343	416	310	5.9	13.1	7.0
Environmental sciences	284	38	10,247	2,396	339	911	250	36	8.9	10.4	10.6
Mathematical/ computer science	454	49	16,124	10,936	147	870	781	23	5.4	7.1	15.6
Life sciences	4,619	506	67,517	23,689	12,881	6,408	3,437	2,071	9.5	14.5	16.1
Psychology	329	46	21,470	7,487	473	2,217	861	113	10.3	11.5	23.9
Social sciences	1,230	159	51,171	26,372	332	5,545	4,062	28	10.8	15.4	8.4

SOURCE: National Science Foundation

TABLE I-5. IMPUTATION RATES FOR ALL DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF IMPUTED DEPARTMENTS: 979

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
MECHANISMS OF SUPPORT											
GRADUATE FELLOWSHIPS	(1)	9.6	10.5	7.3	7.2	8.4	11.5	7.7	8.8		9.8
GRADUATE TRAINEESHIPS	(2)	9.9	12.3	13.7	5.5	14.3	11.9	7.4	10.2		14.3
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	8.2	9.1	6.4	6.2	7.0	9.5	5.3	7.1		8.0
GRADUATE TEACHING ASSISTANTSHIPS	(4)		8.1	9.5	1.7	8.8	10.1		9.4		10.1
OTHER TYPES OF SUPPORT	(5)	9.4	14.8	7.0	6.0	10.4	11.8	7.3	9.1	11.4	11.4
FULL-TIME TOTAL	(6)	8.7	10.7	12.5	6.5	8.0	10.3	7.4	8.3	11.4	9.2
FULL-TIME WOMEN	(7)	2.7	10.4	13.6	5.0	8.3	12.1	5.2	7.2	13.2	11.2
FULL-TIME FOREIGN STUDENTS	(8)										9.2
FULL-TIME FIRST-YEAR STUDENTS	(9)										10.1
FULL-TIME FIRST-YEAR WOMEN	(10)										11.4

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	12.6
PART-TIME WOMEN	(2)	13.7

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	0.0	0.0	0.0	0.0	0.0	24.5	9.2
PART-TIME STUDENTS	0.0	0.0	0.0	0.0	0.0	36.5	12.6

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	15.9	19.0	10.7	15.6	13.6	11.9	13.0	13.5
WOMEN	(2)	15.3	19.4	13.6	16.1	15.1	12.0	9.5	14.2

SOURCE: NATIONAL SCIENCE FOUNDATION

For most cells in the survey questionnaire, the imputation rates were significantly higher in 1981 than in 1980. The decline in response rate since the fall 1980 survey is believed to be the result of several factors. First, because of delays in the printing of some elements of the survey package, the survey mailout was delayed from November 1981 until February 1982, resulting in a considerably shorter interval before the due date. Second, because of cutbacks in funding and staff, an increasing number of institutions said that they were unable to respond at all, and others were able to provide only key item totals. Finally, although the closeout date for survey response was delayed as long as possible (until the beginning of September), a few institutions were still unable to submit their responses within the time limit. Institutions that returned their responses after the closeout date will have their imputed data replaced by actual data in future publications in this series. To counteract these trends, a more agressive followup procedure is being instituted in the fall 1982 survey.

Table I-6. Imputation for nonresponse at master's-granting institutions by area of science/engineering and enrollment status: 1981

Area of science/ engineering	Number of graduate departments		Total in survey			Number imputed			Imputation rate (percent)		
	In universe	Imputed	Full time	Part time	Post doctorates	Full time	Part time	Post doctorates	Full time	Part time	Post doctorates
Total, all areas ...	1,424	344	18,899	32,932	35	2,866	5,249	4	15.2	15.9	11.4
Engineering	141	45	1,295	4,696	1	250	701	0	19.3	14.9	0
Physical sciences	154	33	720	823	15	104	137	1	14.4	16.6	6.7
Environmental sciences	55	16	633	823	7	109	210	1	17.2	25.5	14.3
Mathematical/ computer science ..	162	34	1,602	3,600	1	109	422	0	6.8	11.7	0
Life sciences	369	72	5,019	7,256	10	642	948	2	12.8	13.1	20.0
Psychology	185	52	5,227	6,572	0	904	1,104	0	17.3	16.8	0
Social sciences	358	92	4,403	9,162	1	748	1,727	0	17.0	18.8	0

SOURCE: National Science Foundation

TABLE I-7. IMPUTATION RATES FOR ALL DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF IMPUTED DEPARTMENTS: 344

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
MECHANISMS OF SUPPORT											
GRADUATE FELLOWSHIPS	(1)	37.5	0.0	0.0	7.1	8.0	18.4	5.9	19.4		14.1
GRADUATE TRAINEESHIPS	(2)	0.0	3.4	4.4	0.0	8.3	21.5	33.3	25.0		9.3
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	17.6	4.8	0.0	8.3	12.2	19.7	0.0	14.9		17.1
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0.0	0.0	0.0	14.6	18.9		8.1		18.5
OTHER TYPES OF SUPPORT	(5)	12.5	0.0	0.0	0.0	10.6	19.6	13.5	18.1	21.4	20.9
FULL-TIME TOTAL	(6)	18.4	3.9	4.3	4.1	10.8	19.2	12.0	16.8	21.5	15.2
FULL-TIME WOMEN	(7)	0.0	8.8	1.3	5.3	7.1	18.6	5.6	10.2	22.2	16.4
FULL-TIME FOREIGN STUDENTS	(8)										14.6
FULL-TIME FIRST-YEAR STUDENTS	(9)										21.5
FULL-TIME FIRST-YEAR WOMEN	(10)										20.3

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	15.9
PART-TIME WOMEN	(2)	16.3

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	0.0	0.0	0.0	0.0	0.0	32.5	15.2
PART-TIME STUDENTS	0.0	0.0	0.0	0.0	0.0	35.2	15.9

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	0.0	0.0	0.0	17.4	11.4	7.1	25.0	9.3
WOMEN	(2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SOURCE: NATIONAL SCIENCE FOUNDATION

section II

classification of institutions

The following tables list every institution included in the fall 1981 survey, as well as individual reporting units within those institutions which received multiple survey packets. Institutions are listed alphabetically within State with separate listings for doctorate- and master's-granting institutions.

For each institution in the survey universe, the listings also show the Institutional Classification Code created by NCES in 1981. These codes replace the classification system originally designed by the Carnegie Commission on Higher Education in 1971 and last updated in 1976. The survey universe is drawn primarily from categories A and B, with some institutions from categories C and D. All institutions in category E are excluded by definition. The NCES institutional classifications used in the GSSP are defined as follows:[1]

A. Doctorate-Granting Institutions

These institutions are characterized by a significant level of activity in and commitment to doctoral-level education as measured by the number of doctorate recipients and in diversity in doctorate program offerings. Included in this category are institutions that are not considered specialized schools (see classification D below) and that grant a minimum of 30 doctoral-level degrees. These degrees must be granted in 3 or more doctoral-level program areas or have an interdisciplinary program at the doctorate level. Included in the counts of doctorate degrees are the first professional medical degrees (M.D., D.O., D.D.S., D.M.D., D.V.M., or equivalent).

A01—without a medical school

A02—with a medical school

B. Comprehensive Institutions

These institutions are characterized by a strong, diverse post-baccalaureate program (including first professional), but do not engage in significant doctoral-level education. Specifically, this category includes institutions not considered specialized schools in which the number of doctoral-level degrees granted is less than 30 or in which fewer than 3 doctoral-level programs are offered. In addition, these institutions must grant a minimum of 30 post-baccalaureate degrees and either grant degrees in 3 or more post-baccalaureate programs or have an interdisciplinary program at the post-baccalaureate level.

B01—without a medical school

B02—with a medical school

C. General Baccalaureate Institutions

These institutions are characterized by their primary emphasis on general undergraduate, baccalaureate education. They are not significantly engaged in post-baccalaureate education. Included are institutions not considered specialized institutions in which the number of post-baccalaureate degrees granted is less than 30 or in which fewer than 3 post-baccalaureate level programs are offered. Such institutions must also either (a) grant baccalaureate degrees in 3 or more baccalaureate programs, or (b) offer a baccalaureate program in interdisciplinary studies. In addition, over 75 percent of the degrees granted must be at the baccalaureate level or above.

D. Professional and Specialized Institutions

These are baccalaureate or post-baccalaureate institutions that are characterized by a programmatic emphasis in one area, usually a professional field such as business or engineering.

[1] This information is quoted from the National Center for Education Statistics Announcement, "NCES Changes Classification of Higher Education Institutions," April 7, 1981 (NCES 81-404).

The programmatic emphasis is measured by the percentage of degrees granted in one program area. An institution granting over 60 percent of its degrees in one field, or granting over half of its degrees in one field *and* granting degrees in fewer than 5 baccalaureate programs is considered to be a professional or specialized institution.

D01. Divinity Institutions
Institutions in which the number of professional theological degrees plus the number of other degrees granted in theology (2300 field in the HEGIS[2] Taxonomy) exceed 60 percent of all degrees awarded. As an alternative, the number of theological degrees awarded may exceed only 50 percent of all degrees awarded and the number of baccalaureate programs offered may be fewer than 5.

D02. Medical Institutions
Institutions which are primarily engaged in health science education and which offer first professional medical degrees such as M.D., D.O., D.D.S., and D.V.M. These institutions are those (a) in which the number of professional health science degrees (medicine, dentistry, osteopathy, veterinary medicine) granted, plus the number of other health science degrees (1200 field in the HEGIS Taxonomy), exceed 60 percent of all degrees awarded; or, in which the number of health science degrees awarded exceeds 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5; and (b) which confer first-professional medical degrees.

D03. Other Health Institutions
Institutions which are primarily engaged in health science and which satisfy criterion (a) in D02 above but which do *not* confer first-professional medical degrees (M.D., D.D.S., D.O., D.V.M.).

D04. Engineering Schools
Institutions in which the number of degrees awarded in the area of engineering (0900 field in the HEGIS Taxonomy) exceed 60 percent of all degrees awarded; or in which the number of engineering degrees awarded exceed 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5.

D05. Business and Management Schools
Institutions which confer over 60 percent of their degrees in the area of business and management science (0500 field in the HEGIS Taxonomy); or, in which the number of such degrees awarded exceeds 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5.

D08. Education Schools
Institutions which confer over 60 percent of their degrees in education (0800 field in the HEGIS Taxonomy); or, in which the number of education degrees awarded exceeds 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5.

D09. U.S. Service Schools
Schools under Federal Control.

D10. Other Specialized or Professional Schools
Institutions which grant degrees in *fewer than three programs* at the baccalaureate level, master's level, and the doctorate level, and which did *not* confer over 50 percent of their degrees in any of the above categories.

[2]HEGIS–Higher Education General Information Survey.

doctorate-granting institutions in the 1981 survey

NCES CODE	
	ALABAMA
A02	AUBURN UNIVERSITY
	GRADUATE SCHOOL (MAIN CAMPUS)
	GRADUATE SCHOOL AT MONTGOMERY
A01	THE UNIVERSITY OF ALABAMA
B02	THE UNIVERSITY OF ALABAMA IN BIRMINGHAM
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B02	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE
B02	UNIVERSITY OF SOUTH ALABAMA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
	ALASKA
C01	UNIVERSITY OF ALASKA AT FAIRBANKS
	ARIZONA
A01	ARIZONA STATE UNIVERSITY
B01	NORTHERN ARIZONA UNIVERSITY
A02	UNIVERSITY OF ARIZONA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
	ARKANSAS
A01	UNIVERSITY OF ARKANSAS
D02	UNIVERSITY OF ARKANSAS - MED SCI CAMPUS
	CALIFORNIA
B01	BIOLA COLLEGE
D10	CALIF SCH OF PROF PSYCH - BERKELEY
D10	CALIF SCH OF PROF PSYCH - FRESNO
D10	CALIF SCH OF PROF PSYCH - LOS ANGELES
D10	CALIF SCH OF PROF PSYCH - SAN DIEGO
D10	CALIFORNIA INSTITUTE OF ASIAN STUDIES
A01	CALIFORNIA INSTITUTE OF TECHNOLOGY
A01	CLAREMONT UNIV CENTER & GRADUATE SCHOOL
D02*	DREW POST-GRADUATE MEDICAL SCHOOL
D01	FULLER THEOLOGICAL SEMINARY
B01	GOLDEN GATE UNIVERSITY
D02	LOMA LINDA UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	RAND GRADUATE INSTITUTE POLICY STUDIES
B01	SAN DIEGO STATE UNIVERSITY
A02	STANFORD UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D10	THE FIELDING INSTITUTE
D10	THE WRIGHT INSTITUTE
A01	UNIVERSITY OF CALIF AT BERKELEY
A02	UNIVERSITY OF CALIF AT DAVIS
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	UNIVERSITY OF CALIF AT IRVINE
	GRADUATE SCHOOL
	CALIFORNIA COLLEGE OF MEDICINE
A02	UNIVERSITY OF CALIF AT LOS ANGELES
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF CALIF AT RIVERSIDE
A02	UNIVERSITY OF CALIF AT SAN DIEGO
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D02	UNIVERSITY OF CALIF AT SAN FRANCISCO
A01	UNIVERSITY OF CALIF AT SANTA BARBARA
A01	UNIVERSITY OF CALIF AT SANTA CRUZ
B01	UNIVERSITY OF SANTA CLARA
A02	UNIVERSITY OF SOUTHERN CALIFORNIA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B02	UNIVERSITY OF THE PACIFIC
A01	US INTERNATIONAL UNIVERSITY
D09	US NAVAL POSTGRADUATE SCHOOL
	COLORADO
D04	COLORADO SCHOOL OF MINES
A02	COLORADO STATE UNIVERSITY
A02	UNIVERSITY OF COLORADO
	GRADUATE SCHOOL AT BOULDER
	GRADUATE SCHOOL OF PUBLIC AFFAIRS
	GRADUATE SCHOOL AT DENVER
	GRADUATE SCHOOL AT COLORADO SPRINGS
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF DENVER
A01	UNIVERSITY OF NORTHERN COLORADO
	CONNECTICUT
A02	UNIVERSITY OF CONNECTICUT
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	WESLEYAN UNIVERSITY
A02	YALE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	SCHOOL OF NURSING

NCES CODE	
	DELAWARE
A01	UNIVERSITY OF DELAWARE
	DISTRICT OF COLUMBIA
A01	AMERICAN UNIVERSITY
A01	CATHOLIC UNIVERSITY OF AMERICA
A02	GEORGE WASHINGTON UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE AND HEALTH SCIENCES
A02	GEORGETOWN UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	HOWARD UNIVERSITY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
	FLORIDA
B01	FLORIDA ATLANTIC UNIVERSITY
B01	FLORIDA INSTITUTE OF TECHNOLOGY
A01	FLORIDA STATE UNIVERSITY
B01*	HEED UNIVERSITY
A01	NOVA UNIVERSITY
B01	UNIVERSITY OF CENTRAL FLORIDA
A02	UNIVERSITY OF FLORIDA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A02	UNIVERSITY OF MIAMI
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	UNIVERSITY OF SOUTH FLORIDA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
	GEORGIA
B01	ATLANTA UNIVERSITY
A02	EMORY UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D04	GEORGIA INSTITUTE OF TECHNOLOGY
A01	GEORGIA STATE UNIVERSITY
D02	MEDICAL COLLEGE OF GEORGIA
A02	UNIVERSITY OF GEORGIA
	HAWAII
A02	UNIVERSITY OF HAWAII AT MANOA
	GRADUATE SCHOOL
	JOHN A. BURNS SCHOOL OF MEDICINE
	IDAHO
B01	IDAHO STATE UNIVERSITY
A01	UNIVERSITY OF IDAHO
	ILLINOIS
D02	CHICAGO COLL OF OSTEO MEDICINE
B01	DE PAUL UNIVERSITY
A01	ILLINOIS INSTITUTE OF TECHNOLOGY
A01	ILLINOIS STATE UNIVERSITY
A02	LOYOLA UNIVERSITY OF CHICAGO
	GRADUATE SCHOOL
	GRAD SCH AT THE MEDICAL CENTER
	STRITCH SCHOOL OF MEDICINE
A01	NORTHERN ILLINOIS UNIVERSITY
A02	NORTHWESTERN UNIVERSITY
	GRADUATE SCHOOL
	MEDICAL SCHOOL
D02	RUSH UNIVERSITY
A02	SOUTHERN ILLINOIS UNIV AT CARBONDALE
D02	UNIV OF ILLINOIS MED CENTER - CHICAGO
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A02	UNIVERSITY OF CHICAGO
	GRADUATE SCHOOL
	PRITZKER SCHOOL OF MEDICINE
D02	UNIVERSITY OF HEALTH SCIENCES
A01	UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE
A02	UNIVERSITY OF ILLINOIS - URBANA
	INDIANA
A01	BALL STATE UNIVERSITY
B01	INDIANA STATE UNIVERSITY
A02	INDIANA UNIVERSITY, ALL CAMPUSES
	GRADUATE SCHOOL-BLOOMINGTON
	SCHOOL OF MEDICINE
A02	PURDUE UNIVERSITY
	GRADUATE SCHOOL
	CALUMET CAMPUS
A01	UNIVERSITY OF NOTRE DAME

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

NCES CODE	IOWA
D02	COLLEGE OF OSTEOPATHIC MED & SURGERY
A02	IOWA STATE UNIVERSITY OF SCI & TECH
A02	UNIVERSITY OF IOWA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
B01	UNIVERSITY OF NORTHERN IOWA
	KANSAS
A02	KANSAS STATE UNIV OF AGR & APPLIED SCI
A02	UNIVERSITY OF KANSAS
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	WICHITA STATE UNIVERSITY
	KENTUCKY
A02	UNIVERSITY OF KENTUCKY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A02	UNIVERSITY OF LOUISVILLE
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	LOUISIANA
A02	LOUISIANA STATE UNIVERSITY SYSTEM
	GRADUATE SCHOOL IN BATON ROUGE
	SCHOOL OF MEDICINE IN SHREVEPORT
	MEDICAL CENTER AT NEW ORLEANS
B01	LOUISIANA TECH UNIVERSITY
B01	NORTHEAST LOUISIANA UNIVERSITY
A02	TULANE UNIVERSITY OF LOUISIANA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	SCHOOL OF PUBLIC HEALTH & TROPICAL MED
B01	UNIVERSITY OF NEW ORLEANS
B01	UNIVERSITY OF SOUTHWESTERN LOUISIANA
	MAINE
B01	UNIVERSITY OF MAINE AT ORONO
	MARYLAND
A02	JOHNS HOPKINS UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF HYGIENE AND PUBLIC HEALTH
	SCHOOL OF MEDICINE
D09*	UNIFORMED SERV UNIV OF THE HLTH SCIENCES
D02	UNIVERSITY OF MARYLAND - BALT PROF SCH
B01	UNIVERSITY OF MARYLAND - BALTIMORE CNTY
A01	UNIVERSITY OF MARYLAND - COLLEGE PARK
	MASSACHUSETTS
A01	BOSTON COLLEGE
A02	BOSTON UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	SCHOOL OF DENTISTRY
A01	BRANDEIS UNIVERSITY
B01	CLARK UNIVERSITY
A02	HARVARD UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF PUBLIC HEALTH
	KENNEDY SCH OF GOVT
	HARVARD MEDICAL SCHOOL
D03	MASSACHUSETTS COLLEGE OF PHARMACY
A01	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
A01	NORTHEASTERN UNIVERSITY
B01	SMITH COLLEGE
A02	TUFTS UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	UNIVERSITY OF LOWELL
A01	UNIVERSITY OF MASSACHUSETTS AT AMHERST
D02	UNIVERSITY OF MASSACHUSETTS AT WORCESTER
D10*	WOODS HOLE OCEANOGRAPHIC INSTITUTION
D04	WORCESTER POLYTECHNIC INSTITUTE
	MICHIGAN
B01	CENTRAL MICHIGAN UNIVERSITY
A02	MICHIGAN STATE UNIVERSITY
	GRAD SCHOOL & COLLEGE OF HUMAN MEDICINE
	MICHIGAN COLLEGE OF OSTEOPATHIC MEDICINE
B01	MICHIGAN TECHNOLOGICAL UNIVERSITY
B01	OAKLAND UNIVERSITY
B02	UNIVERSITY OF DETROIT
A02	UNIVERSITY OF MICHIGAN
	GRADUATE SCHOOL AT ANN ARBOR
	GRADUATE SCHOOL AT DEARBORN
	MEDICAL SCHOOL AT ANN ARBOR
A02	WAYNE STATE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	WESTERN MICHIGAN UNIVERSITY

NCES CODE	MINNESOTA
A02	UNIVERSITY OF MINNESOTA
	GRADUATE SCHOOL AT MINNEAPOLIS
	GRADUATE SCHOOL AT DULUTH
	MINNEAPOLIS MEDICAL SCHOOL
	MAYO GRADUATE SCHOOL OF MEDICINE
	DULUTH SCHOOL OF MEDICINE
	MISSISSIPPI
A01	MISSISSIPPI STATE UNIVERSITY
A02	UNIVERSITY OF MISSISSIPPI
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF SOUTHERN MISSISSIPPI
	MISSOURI
D02	KANSAS CITY COLL OF OSTEOPATHIC MEDICINE
D02	KIRKSVILLE COLLEGE OF OSTEOPATHIC MED
A02	ST LOUIS UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	UNIVERSITY OF MISSOURI - COLUMBIA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	UNIVERSITY OF MISSOURI - KANSAS CITY
D04	UNIVERSITY OF MISSOURI - ROLLA
B01	UNIVERSITY OF MISSOURI - ST LOUIS
A02	WASHINGTON UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	MONTANA
B01	MONTANA STATE UNIVERSITY
A01	UNIVERSITY OF MONTANA
	NEBRASKA
B02	CREIGHTON UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF NEBRASKA - LINCOLN
B01	UNIVERSITY OF NEBRASKA - OMAHA
D02	UNIVERSITY OF NEBRASKA MEDICAL CENTER
	NEVADA
B02	UNIVERSITY OF NEVADA AT RENO
	GRADUATE SCHOOL
	SCHOOL OF MEDICAL SCIENCES
	NEW HAMPSHIRE
B02	DARTMOUTH COLLEGE
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF NEW HAMPSHIRE
	NEW JERSEY
B02	FAIRLEIGH DICKINSON UNIVERSITY
	RUTHERFORD CAMPUS
	TEANECK CAMPUS
	MADISON CAMPUS
D04	NEW JERSEY INSTITUTE OF TECHNOLOGY
A01	PRINCETON UNIVERSITY
A01	RUTGERS THE STATE UNIVERSITY
	GRADUATE SCHOOL AT NEW BRUNSWICK
	GRADUATE SCHOOL AT NEWARK
	SCHOOL OF CRIMINAL JUSTICE
B01	SETON HALL UNIVERSITY
D04	STEVENS INSTITUTE OF TECHNOLOGY
D02	UNIV OF MED AND DENT OF NEW JERSEY
	RUTGERS MEDICAL SCHOOL
	GRAD SCH OF BIOMED SCI/NJ MED SCHOOL
	NJ SCHOOL OF OSTEOPATHIC MED
	NEW JERSEY DENTAL SCHOOL
	NEW JERSEY MEDICAL SCHOOL AT NEWARK
	NEW MEXICO
B01	NEW MEXICO INSTITUTE OF MINING AND TECH
A01	NEW MEXICO STATE UNIVERSITY
A02	UNIVERSITY OF NEW MEXICO
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

NCES CODE	NEW YORK
A01	ADELPHI UNIVERSITY
D02	ALBANY MEDICAL COLLEGE
C01	ALFRED UNIVERSITY
D04	CLARKSON COLLEGE OF TECHNOLOGY
A02	COLUMBIA UNIV MAIN DIVISION
	GRADUATE SCHOOL
	COLLEGE OF PHYS AND SURGEONS
D08	COLUMBIA UNIV TEACHERS COLLEGE
A02	CORNELL UNIVERSITY
	GRADUATE SCHOOL
	MEDICAL COLLEGE
	GRADUATE SCHOOL OF MEDICAL SCIENCES
B01	CUNY CITY COLLEGE
A01	CUNY GRADUATE SCHOOL AND UNIV CENTER
B01	CUNY HUNTER COLLEGE
D02	CUNY MOUNT SINAI SCHOOL OF MEDICINE
A01	FORDHAM UNIVERSITY
B01	HOFSTRA UNIVERSITY
B01	LONG ISLAND UNIVERSITY
	BROOKLYN CENTER
	C. W. POST CENTER
	A & M SCHWARTZ COL OF PHARMACY HEA SCI
A01	NEW SCHOOL FOR SOCIAL RESEARCH
B01	NEW YORK INSTITUTE OF TECHNOLOGY
	GRADUATE SCHOOL
	NEW YORK COLLEGE OF OSTEOPATHIC MEDICINE
D02	NEW YORK MEDICAL COLLEGE
A02	NEW YORK UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	PACE UNIVERSITY
	NEW YORK CAMPUS
	WESTCHESTER CAMPUS
D04	POLYTECHNIC INSTITUTE OF NEW YORK
A01	RENSSELAER POLYTECHNIC INSTITUTE
A01	ROCKEFELLER UNIVERSITY
B01	ST BONAVENTURE UNIVERSITY
A01	ST JOHN'S UNIVERSITY
A01	SUNY - ALBANY
A01	SUNY - BINGHAMTON
A02	SUNY - BUFFALO
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	SUNY - COLL OF ENV SCIENCE AND FORESTRY
D02	SUNY - DOWNSTATE MEDICAL CENTER
A02	SUNY - STONY BROOK
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D02	SUNY - UPSTATE MEDICAL CENTER
D03	SUNY STATE COLLEGE OF OPTOMETRY
A01	SYRACUSE UNIVERSITY
B01	UNION COLLEGE(NY)
A02	UNIVERSITY OF ROCHESTER
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE AND DENTISTRY
A02	YESHIVA UNIVERSITY
	GRADUATE SCHOOL
	ALBERT EINSTEIN COLLEGE OF MEDICINE
	NORTH CAROLINA
A02	DUKE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	EAST CAROLINA UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	NORTH CAROLINA STATE UNIV AT RALEIGH
A02	UNIV OF NORTH CAROLINA AT CHAPEL HILL
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIV OF NORTH CAROLINA AT GREENSBORO
B02	WAKE FOREST UNIVERSITY
	GRADUATE SCHOOL
	BOWMAN GRAY SCHOOL OF MEDICINE
	NORTH DAKOTA
B01	NORTH DAKOTA STATE UNIVERSITY
A02	UNIVERSITY OF NORTH DAKOTA

NCES CODE	OHIO
D09	AIR FORCE INSTITUTE OF TECHNOLOGY
A01	BOWLING GREEN STATE UNIVERSITY
A02	CASE WESTERN RESERVE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	CLEVELAND STATE UNIVERSITY
A01	KENT STATE UNIVERSITY
D02	MEDICAL COLLEGE OF OHIO AT TOLEDO
A01	MIAMI UNIVERSITY
D11	NE OHIO UNIV COL OF MEDICINE
A02	OHIO STATE UNIVERSITY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A02	OHIO UNIVERSITY
	GRADUATE COLLEGE
	COLLEGE OF OSTEOPATHIC MEDICINE
A01	UNION OF EXPERIMENTNG COLLEGES & UNIVS
A01	UNIVERSITY OF AKRON
A02	UNIVERSITY OF CINCINNATI
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
B01	UNIVERSITY OF DAYTON
A01	UNIVERSITY OF TOLEDO
B02	WRIGHT STATE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	OKLAHOMA
D02	OKLAHOMA COLL OF OSTEO MED & SURGERY
A02	OKLAHOMA STATE UNIVERSITY
B01	ORAL ROBERTS UNIVERSITY
A01	UNIVERSITY OF OKLAHOMA - NORMAN
D02	UNIVERSITY OF OKLAHOMA HEALTH SCI CENTER
B01	UNIVERSITY OF TULSA
	OREGON
D10	OREGON GRADUATE CENTER
D02	OREGON HEALTH SCIENCES UNIVERSITY
A01	OREGON STATE UNIVERSITY
B01	PORTLAND STATE UNIVERSITY
A01	UNIVERSITY OF OREGON
	PENNSYLVANIA
A01	BRYN MAWR COLLEGE
A01	CARNEGIE-MELLON UNIVERSITY
B01	DREXEL UNIVERSITY
B01	DUQUESNE UNIVERSITY
D02	HAHNEMANN UNIVERSITY
A01	LEHIGH UNIVERSITY
A02	PENNSYLVANIA STATE UNIVERSITY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
D02	PHILA COLLEGE OF OSTEOPATHIC MEDICINE
D03	PHILADELPHIA COLL OF PHARMACY AND SCI
A02	TEMPLE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D02	THE MEDICAL COLLEGE OF PENNSYLVANIA
D02	THOMAS JEFFERSON UNIVERSITY
A02	UNIVERSITY OF PENNSYLVANIA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	UNIVERSITY OF PITTSBURGH
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	VILLANOVA UNIVERSITY
	RHODE ISLAND
A02	BROWN UNIVERSITY
B01	PROVIDENCE COLLEGE
A01	UNIVERSITY OF RHODE ISLAND
	SOUTH CAROLINA
B01	CLEMSON UNIVERSITY
D02	MEDICAL UNIVERSITY OF SOUTH CAROLINA
A01	UNIVERSITY OF SOUTH CAROLINA
	GRADUATE SCHOOL
	MEDICAL SCHOOL
	SOUTH DAKOTA
D04	SOUTH DAKOTA SCHOOL OF MINES AND TECH
B01	SOUTH DAKOTA STATE UNIVERSITY
B02	UNIVERSITY OF SOUTH DAKOTA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE

NCES CODE	TENNESSEE
B01	EAST TENNESSEE STATE UNIVERSITY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
D02	MEHARRY MEDICAL COLLEGE
A01	MEMPHIS STATE UNIVERSITY
B01	TENNESSEE TECHNOLOGICAL UNIVERSITY
A02	UNIVERSITY OF TENNESSEE AT KNOXVILLE
D02	UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE
A02	VANDERBILT UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	TEXAS
D02	BAYLOR COLLEGE OF DENTISTRY
D02	BAYLOR COLLEGE OF MEDICINE
A01	BAYLOR UNIVERSITY
B01	EAST TEXAS STATE UNIVERSITY
B01	LAMAR UNIVERSITY
A01	NORTH TEXAS STATE UNIVERSITY
A01	RICE UNIVERSITY
B01	SAM HOUSTON STATE UNIVERSITY
A01	SOUTHERN METHODIST UNIVERSITY
B01	STEPHEN F. AUSTIN STATE UNIVERSITY
B01	TEXAS A & I UNIVERSITY
A02	TEXAS A & M UNIVERSITY
B01	TEXAS CHRISTIAN UNIVERSITY
D02	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE
A01	TEXAS TECH UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	TEXAS WOMAN'S UNIVERSITY
B01	UNIV OF TEXAS AT ARLINGTON
A01	UNIV OF TEXAS AT AUSTIN
B01	UNIV OF TEXAS AT DALLAS
B01	UNIV OF TEXAS AT EL PASO
D02*	UNIV OF TEXAS CANCER CENTER
D02	UNIV OF TEXAS HLTH SCI CTR AT DALLAS
D02	UNIV OF TEXAS HLTH SCI CTR AT HOUSTON
D02	UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO
D02	UNIV OF TEXAS MED BRANCH AT GALVESTON
A01	UNIVERSITY OF HOUSTON
	GRADUATE SCHOOL
	VICTORIA CAMPUS
	UTAH
A01	BRIGHAM YOUNG UNIVERSITY
A02	UNIVERSITY OF UTAH
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A01	UTAH STATE UNIVERSITY
	VERMONT
B02	UNIVERSITY OF VERMONT & ST AGRIC COLLEGE
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE

NCES CODE	VIRGINIA
B01	COLLEGE OF WILLIAM AND MARY
D02	EASTERN VIRGINIA MEDICAL SCHOOL
B01	GEORGE MASON UNIVERSITY
D04*	INSTITUTE OF TEXTILE TECHNOLOGY
B01	OLD DOMINION UNIVERSITY
A02	UNIVERSITY OF VIRGINIA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	VIRGINIA COMMONWEALTH UNIVERSITY
	GRADUATE SCHOOL
	MEDICAL COLLEGE OF VIRGINIA
A01	VIRGINIA POLYTECHNIC INST AND STATE UNIV
	WASHINGTON
A02	UNIVERSITY OF WASHINGTON
	GRADUATE SCHOOL
	SCHOOL OF PUBLIC HEALTH AND COMM MED
	SCHOOL OF MEDICINE
A02	WASHINGTON STATE UNIVERSITY
	WEST VIRGINIA
B01	MARSHALL UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D02	WEST VIRGINIA SCH OF OSTEOPATHIC MED
A02	WEST VIRGINIA UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	WISCONSIN
D10	INSTITUTE OF PAPER CHEMISTRY
A02	MARQUETTE UNIVERSITY
D02	MEDICAL COLLEGE OF WISCONSIN
A02	UNIVERSITY OF WISCONSIN - MADISON
	GRADUATE SCHOOL
	MEDICAL SCHOOL
A01	UNIVERSITY OF WISCONSIN - MILWAUKEE
	WYOMING
A01	UNIVERSITY OF WYOMING
	PUERTO RICO
D10	CARIBBEAN CTR FOR ADV STD
C01	CATHOLIC UNIVERSITY OF PUERTO RICO
	GRADUATE SCHOOL
	PONCE SCHOOL OF MEDICINE
B01	UNIVERSITY OF PUERTO RICO
B01	UNIVERSITY OF PUERTO RICO - RIO PIEDRAS
D02	UNIVERSITY OF PUERTO RICO MED SCI CAMPUS

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

master's-granting institutions in the 1981 survey

NCES CODE	ALABAMA
B01	ALABAMA A & M UNIVERSITY
B01	ALABAMA STATE UNIVERSITY
B01	JACKSONVILLE STATE UNIVERSITY
B01	SAMFORD UNIVERSITY
B01	TROY STATE UNIVERSITY
B01	TROY STATE UNIVERSITY AT MONTGOMERY
B02	TUSKEGEE INSTITUTE
B01	UNIVERSITY OF MONTEVALLO
B01	UNIVERSITY OF NORTH ALABAMA
	ALASKA
C01	UNIV OF ALASKA AT ANCHORAGE
C01	UNIV OF ALASKA SOUTHEAST
	ARKANSAS
B01	ARKANSAS STATE UNIVERSITY
B01	HENDERSON STATE UNIVERSITY
B01	UNIVERSITY OF ARKANSAS AT LITTLE ROCK
B01	UNIVERSITY OF CENTRAL ARKANSAS
	CALIFORNIA
B01	AZUSA PACIFIC COLLEGE
B01	CAL ST POLY STATE UNIV AT SAN LUIS OBISPO
B01	CALIF STATE COLLEGE AT SAN BERNARDINO
B01	CAL ST STATE COLLEGE OF STANISLAUS
B01	CAL ST STATE POLYTECHNIC UNIV AT POMONA
B01	CALIF STATE UNIV AT DOMINGUEZ HILLS
B01	CALIF STATE UNIV AT FULLERTON
B01	CALIF STATE UNIV AT HAYWARD
B01	CALIF STATE UNIV AT LONG BEACH
B01	CALIF STATE UNIV AT LOS ANGELES
B01	CALIF STATE UNIVERSITY AT CHICO
B01	CALIF STATE UNIVERSITY AT FRESNO
B01	CALIF STATE UNIVERSITY AT NORTHRIDGE
B01	CALIF STATE UNIVERSITY AT SACRAMENTO
B01	CALIFORNIA LUTHERAN COLLEGE
B01	CALIFORNIA STATE COLLEGE AT BAKERSFIELD
B01	CHAPMAN COLLEGE
B01	DOMINICAN COLLEGE OF SAN RAFAEL
D04	HARVEY MUDD COLLEGE
B01	HOLY NAMES COLLEGE
B01	HUMBOLDT STATE UNIVERSITY
B01	JOHN F KENNEDY UNIVERSITY
B01	LOYOLA MARYMOUNT UNIVERSITY
B01	MONTEREY INST OF INTL STUDIES
D03	NATIONAL UNIVERSITY
D04	NORTHROP UNIVERSITY
C01	OCCIDENTAL COLLEGE
C01*	PACIFIC STATES UNIVERSITY
C01	PACIFIC UNION COLLEGE
B01	PEPPERDINE UNIVERSITY
B01	SAN FRANCISCO STATE UNIVERSITY
B01	SAN JOSE STATE UNIVERSITY
B01	SONOMA STATE UNIVERSITY
B01	UNIVERSITY OF LA VERNE
D05	UNIVERSITY OF REDLANDS
B01	UNIVERSITY OF SAN DIEGO
B01	UNIVERSITY OF SAN FRANCISCO
B01	WEST COAST UNIVERSITY
B01	WHITTIER COLLEGE
	COLORADO
B01	ADAMS STATE UNIVERSITY
B01	WESTERN STATE COLLEGE OF COLORADO
	CONNECTICUT
B01	CENTRAL CONNECTICUT STATE COLLEGE
B01	CONNECTICUT COLLEGE
C01	QUINNIPIAC COLLEGE
B01	SOUTHERN CONNECTICUT STATE COLLEGE
B01	ST JOSEPH COLLEGE
D05	THE HARTFORD GRADUATE CENTER
B01	TRINITY COLLEGE
B01	UNIVERSITY OF BRIDGEPORT
B01	UNIVERSITY OF HARTFORD
B01	UNIVERSITY OF NEW HAVEN
B01	WESTERN CONNECTICUT STATE COLLEGE
	DISTRICT OF COLUMBIA
B01	GALLAUDET COLLEGE
B01	UNIVERSITY OF THE DISTRICT OF COLUMBIA
	FLORIDA
B01	BARRY COLLEGE
C01	BISCAYNE COLLEGE
B01	FLORIDA A & M UNIVERSITY
B01	FLORIDA INTERNATIONAL UNIVERSITY
C01	JACKSONVILLE UNIVERSITY
B01	ROLLINS COLLEGE
B01	STETSON UNIVERSITY
B01	UNIVERSITY OF WEST FLORIDA

NCES CODE	GEORGIA
B01	ARMSTRONG STATE COLLEGE
B01	AUGUSTA COLLEGE
B01	GEORGIA COLLEGE
B01	GEORGIA SOUTHERN COLLEGE
B01	VALDOSTA STATE COLLEGE
B01	WEST GEORGIA COLLEGE
	ILLINOIS
B01	BRADLEY UNIVERSITY
B01	CHICAGO STATE UNIVERSITY
B01	EASTERN ILLINOIS UNIVERSITY
B01	GEORGE WILLIAMS COLLEGE
B01	GOVERNORS STATE UNIVERSITY
D04	MIDWEST COLLEGE OF ENGINEERING
B01	NORTHEASTERN ILLINOIS UNIVERSITY
B01	ROOSEVELT UNIVERSITY
B01	SANGAMON STATE UNIVERSITY
B02	SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE
B01	WESTERN ILLINOIS UNIVERSITY
	INDIANA
B01	BUTLER UNIVERSITY
B01	DE PAUW UNIVERSITY
B01	INDIANA CENTRAL UNIVERSITY
A02	INDIANA UNIVERSITY, ALL CAMPUSES FORT WAYNE CAMPUS SOUTH BEND CAMPUS
D04	ROSE-HULMAN INSTITUTE OF TECHNOLOGY
B01	SAINT FRANCIS COLLEGE
B01	UNIVERSITY OF EVANSVILLE
B01	VALPARAISO UNIVERSITY
	IOWA
B01	DRAKE UNIVERSITY
C01	LORAS COLLEGE
	KANSAS
B01	EMPORIA STATE UNIVERSITY - KANSAS
B01	FORT HAYS STATE UNIVERSITY
B01	PITTSBURG STATE UNIVERSITY
C01	WASHBURN UNIV OF TOPEKA
	KENTUCKY
B01	EASTERN KENTUCKY UNIVERSITY
B01	MOREHEAD STATE UNIVERSITY
B01	MURRAY STATE UNIVERSITY
B01	SPALDING COLLEGE
B01	WESTERN KENTUCKY UNIVERSITY
	LOUISIANA
B01	GRAMBLING STATE UNIVERSITY
B01	LOYOLA UNIVERSITY IN NEW ORLEANS
B01	MCNEESE STATE UNIVERSITY
B01	NICHOLLS STATE UNIVERSITY
B01	NORTHWESTERN STATE UNIV OF LOUISIANA
B01	SOUTHEASTERN LOUISIANA UNIVERSITY
B01	SOUTHERN UNIVERSITY A & M COLLEGE
	MARYLAND
C01	COPPIN STATE COLLEGE
B01	FROSTBURG STATE COLLEGE
B01	HOOD COLLEGE
B01	LOYOLA COLLEGE
B01	MORGAN STATE UNIVERSITY
B01	TOWSON STATE UNIVERSITY
B01	UNIVERSITY OF BALTIMORE
C01	WASHINGTON COLLEGE
	MASSACHUSETTS
B01	AMERICAN INTERNATIONAL COLLEGE
B01	ANNA MARIA COLLEGE
B01	ASSUMPTION COLLEGE
B01	BOSTON STATE COLLEGE
B01	BRIDGEWATER STATE COLLEGE
C01	COLLEGE OF THE HOLY CROSS
B01	EMERSON COLLEGE
B01	FRAMINGHAM STATE COLLEGE
C01	MOUNT HOLYOKE COLLEGE
B01	SALEM STATE COLLEGE
B01	SOUTHEASTERN MASSACHUSETTS UNIVERSITY
B01	SUFFOLK UNIVERSITY
C01	UNIV OF MASSACHUSETTS-BOSTON
B01	WESTERN NEW ENGLAND COL
C01	WILLIAMS COLLEGE
B01	WORCESTER STATE COLLEGE
	MICHIGAN
B01	ANDREWS UNIVERSITY
B01	EASTERN MICHIGAN UNIVERSITY
B01	NORTHERN MICHIGAN UNIVERSITY

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NCES CODE	MINNESOTA
B01	BEMIDJI STATE UNIVERSITY
B01	MANKATO STATE UNIVERSITY
B01	MOORHEAD STATE UNIVERSITY
B01	ST CLOUD STATE UNIVERSITY
B01	ST MARY'S COLLEGE
B01	WINONA STATE UNIVERSITY
	MISSISSIPPI
B01	JACKSON STATE UNIVERSITY
B01	MISSISSIPPI COLLEGE
B01	MISSISSIPPI UNIVERSITY FOR WOMEN
	MISSOURI
B01	CENTRAL MISSOURI STATE UNIVERSITY
B01	NORTHEAST MISSOURI STATE UNIVERSITY
B01	NORTHWEST MISSOURI STATE UNIVERSITY
B01	SOUTHEAST MISSOURI STATE UNIVERSITY
B01	SOUTHWEST MISSOURI STATE UNIVERSITY
	MONTANA
D04	MONTANA COLLEGE MINERAL SCI & TECHNOLOGY
	NEBRASKA
B01	KEARNEY STATE COLLEGE
	NEVADA
B01	UNIVERSITY OF NEVADA AT LAS VEGAS
	NEW HAMPSHIRE
B01	RIVIER COLLEGE
	NEW JERSEY
A01	DREW UNIVERSITY
B01	KEAN COLLEGE OF NEW JERSEY
B01	MONMOUTH COLLEGE(NJ)
B01	MONTCLAIR STATE COLLEGE
D05	RIDER COLLEGE
B01	TRENTON STATE COLLEGE
B01	WILLIAM PATTERSON COLLEGE
	NEW MEXICO
B01	EASTERN NEW MEXICO UNIVERSITY
B01	NEW MEXICO HIGHLANDS UNIVERSITY
B01	WESTERN NEW MEXICO UNIVERSITY
	NEW YORK
C01	COLLEGE OF NEW ROCHELLE
B01	COLLEGE OF ST ROSE
C01	COOPER UNION
D05	CUNY BERNARD BARUCH COLLEGE
B01	CUNY BROOKLYN COLLEGE
B01*	CUNY COLLEGE OF STATEN ISLAND ST GEORGE
B01	CUNY JOHN JAY COLLEGE OF CRIM JUSTICE
B01	CUNY LEHMAN COLLEGE
B01	CUNY QUEENS COLLEGE
B01	IONA COLLEGE
B01	ITHACA COLLEGE
B01	MANHATTAN COLLEGE
C01	MARIST COLLEGE
B01	NIAGARA UNIVERSITY
B01	PRATT INSTITUTE
B01	ROCHESTER INSTITUTE OF TECHNOLOGY
B01	RUSSELL SAGE COLLEGE
B01	SARAH LAWRENCE COLLEGE
B01	SUNY COLLEGE AT BROCKPORT
B01	SUNY COLLEGE AT BUFFALO
B01	SUNY COLLEGE AT CORTLAND
B01	SUNY COLLEGE AT FREDONIA
B01	SUNY COLLEGE AT GENESEO
B01	SUNY COLLEGE AT NEW PALTZ
B01	SUNY COLLEGE AT ONEONTA
B01	SUNY COLLEGE AT OSWEGO
B01	SUNY COLLEGE AT PLATTSBURGH
B01	SUNY COLLEGE AT POTSDAM
C01	VASSAR COLLEGE
B01	WAGNER COLLEGE
	NORTH CAROLINA
B01	APPALACHIAN STATE UNIVERSITY
B01	CAMPBELL UNIVERSITY
B01	NORTH CAROLINA A & T STATE UNIVERSITY
B01	NORTH CAROLINA CENTRAL UNIVERSITY
B01	UNIV OF NORTH CAROLINA AT CHARLOTTE
B01	WESTERN CAROLINA UNIVERSITY

NCES CODE	OHIO
B01	ANTIOCH UNIVERSITY
B01	JOHN CARROLL UNIVERSITY
C01	OBERLIN COLLEGE
B01	XAVIER UNIVERSITY
B01	YOUNGSTOWN STATE UNIVERSITY
	OKLAHOMA
C01	EAST CENTRAL OKLAHOMA STATE UNIV
B01	SOUTHWESTERN OKLAHOMA STATE UNIVERSITY
	OREGON
C01	PACIFIC UNIVERSITY
B01	SOUTHERN OREGON STATE COLLEGE
B01	UNIVERSITY OF PORTLAND
D08	WESTERN OREGON STATE COLLEGE
	PENNSYLVANIA
B01	BLOOMSBURG STATE COLLEGE
B01	BUCKNELL UNIVERSITY
B01	CALIFORNIA STATE COLLEGE
C01	CHEYNEY STATE COLLEGE
B01	CLARION STATE COLLEGE
B01	EAST STROUDSBURG STATE COLLEGE
B01	EDINBORO STATE COLLEGE
B01	GANNON COLLEGE
B01	INDIANA UNIVERSITY OF PENNSYLVANIA
B01	KUTZTOWN STATE COLLEGE
B01	MANSFIELD STATE COLLEGE
B01	MARYWOOD COLLEGE
B01	MILLERSVILLE STATE COLLEGE
B01	SHIPPENSBURG STATE COLLEGE
B01	SLIPPERY ROCK STATE COLLEGE
B01	ST JOSEPH'S UNIVERSITY
C01	SWARTHMORE COLLEGE
B01	UNIVERSITY OF SCRANTON
B01	WEST CHESTER STATE COLLEGE
C01	WIDENER UNIVERSITY
B01	WILKES COLLEGE
	RHODE ISLAND
B01	RHODE ISLAND COLLEGE
	SOUTH CAROLINA
B01	CITADEL MILITARY COLL OF SOUTH CAROLINA
B01	COLLEGE OF CHARLESTON
C01	FURMAN UNIVERSITY
B01	WINTHROP COLLEGE
	TENNESSEE
B01	AUSTIN PEAY STATE UNIVERSITY
C01	FISK UNIVERSITY
B01	MIDDLE TENNESSEE STATE UNIVERSITY
B01	TENNESSEE STATE UNIVERSITY
B01	UNIVERSITY OF TENNESSEE AT CHATTANOOGA
	TEXAS
B01	ABILENE CHRISTIAN UNIVERSITY
B01	AMERICAN TECHNOLOGICAL UNIVERSITY
B01	ANGELO STATE UNIVERSITY
B01	CORPUS CHRISTI STATE UNIVERSITY
B01	INCARNATE WORD COLLEGE
B01	MIDWESTERN STATE UNIVERSITY
B01	PAN AMERICAN UNIVERSITY
B01	PRAIRIE VIEW A & M UNIVERSITY
B01	SOUTHWEST TEXAS STATE UNIVERSITY
B01	ST MARY'S UNIVERSITY OF SAN ANTONIO
B01	SUL ROSS STATE UNIVERSITY
B01	TARLETON STATE UNIVERSITY
B01	TEXAS SOUTHERN UNIVERSITY
B01	TRINITY UNIVERSITY
B01	UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY
B01	UNIVERSITY OF TEXAS AT SAN ANTONIO
B01	UNIVERSITY OF TEXAS AT TYLER
B01	UNIVERSITY OF TEXAS OF THE PERMIAN BASIN
B01	WEST TEXAS STATE UNIVERSITY
	VERMONT
B01	GODDARD COLLEGE
C01	MIDDLEBURY COLLEGE
C01	NORWICH UNIVERSITY
	VIRGINIA
B01	HAMPTON INSTITUTE
C01	HOLLINS COLLEGE
B01	JAMES MADISON UNIVERSITY
B01	LYNCHBURG COLLEGE
B01	RADFORD UNIVERSITY
B01	UNIVERSITY OF RICHMOND
B01	VIRGINIA STATE UNIVERSITY

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NCES CODE	WASHINGTON
B01	CENTRAL WASHINGTON UNIVERSITY
B01	EASTERN WASHINGTON UNIVERSITY
B01	PACIFIC LUTHERAN UNIVERSITY
B01	SEATTLE UNIVERSITY
B01	UNIVERSITY OF PUGET SOUND
C01	WALLA WALLA COLLEGE
B01	WESTERN WASHINGTON UNIVERSITY
B01	WHITWORTH COLLEGE
	WEST VIRGINIA
D08	WEST VIRGINIA COLLEGE OF GRAD STUDIES

NCES CODE	WISCONSIN
C01	MILWAUKEE SCHOOL OF ENGINEERING
B01	UNIVERSITY OF WISCONSIN - EAU CLAIRE
B01	UNIVERSITY OF WISCONSIN - GREEN BAY
B01	UNIVERSITY OF WISCONSIN - LA CROSSE
B01	UNIVERSITY OF WISCONSIN - OSHKOSH
B01	UNIVERSITY OF WISCONSIN - PLATTEVILLE
B01	UNIVERSITY OF WISCONSIN - RIVER FALLS
B01	UNIVERSITY OF WISCONSIN - STEVENS POINT
B01	UNIVERSITY OF WISCONSIN - STOUT
B01	UNIVERSITY OF WISCONSIN - WHITEWATER
	GUAM
B01	UNIVERSITY OF GUAM
	PUERTO RICO
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TABLE A-1. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, HIGHEST DEGREE GRANTED, AND ENROLLMENT STATUS: 1981

FIELD	ALL INSTITUTIONS			DOCTORATE-GRANTING			MASTER'S-GRANTING		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL FIELDS	392,034	253,428	138,606	340,203	234,529	105,674	51,831	18,899	32,932
ENGINEERING	82,977	46,661	36,316	76,986	45,366	31,620	5,991	1,295	4,696
AEROSPACE	1,849	1,449	400	1,842	1,446	396	7	3	4
AGRICULTURAL	812	677	135	812	677	135	0	0	0
BIOMEDICAL	1,047	862	185	1,002	848	154	45	14	31
CHEMICAL	6,693	5,143	1,550	6,479	5,083	1,396	214	60	154
CIVIL	12,464	7,320	5,144	11,494	7,093	4,401	970	227	743
ELECTRICAL	20,160	10,401	9,759	18,905	10,145	8,760	1,255	256	999
ENGINEERING SCIENCE	2,015	1,232	783	1,803	1,216	587	212	16	196
INDUSTRIAL	12,079	3,947	8,132	11,241	3,737	7,504	838	210	628
MECHANICAL	10,815	6,468	4,347	10,110	6,383	3,727	705	85	620
METALLURGICAL/MATERIALS	3,106	2,440	666	3,028	2,422	606	78	18	60
MINING	588	470	118	570	453	117	18	17	1
NUCLEAR	1,321	1,056	265	1,321	1,056	265	0	0	0
PETROLEUM	521	393	128	518	390	128	3	3	0
ENGINEERING, N.E.C.	9,507	4,803	4,704	7,861	4,417	3,444	1,646	386	1,260
PHYSICAL SCIENCES	27,351	23,354	3,997	25,808	22,634	3,174	1,543	720	823
ASTRONOMY	597	565	32	597	565	32	0	0	0
CHEMISTRY	16,380	13,735	2,645	15,253	13,170	2,083	1,127	565	562
PHYSICS	10,184	8,962	1,222	9,883	8,840	1,043	301	122	179
PHYSICAL SCIENCES, N.E.C.	190	92	98	75	59	16	115	33	82
ENVIRONMENTAL SCIENCES	14,099	10,880	3,219	12,643	10,247	2,396	1,456	633	823
ATMOSPHERIC SCIENCES	914	772	142	905	766	139	9	6	3
GEOSCIENCES	8,691	6,945	1,746	8,161	6,761	1,400	530	184	346
OCEANOGRAPHY	2,097	1,637	460	1,948	1,604	344	149	33	116
ENVIRONMENTAL SCIENCES, N.E.C.	2,397	1,526	871	1,629	1,116	513	768	410	358
MATHEMATICAL/COMPUTER SCIENCES	32,262	17,726	14,536	27,060	16,124	10,936	5,202	1,602	3,600
COMPUTER SCIENCE	16,915	7,737	9,178	13,552	6,589	6,963	3,363	1,148	2,215
MATHEMATICS AND APPLIED MATHEMATICS	13,383	8,460	4,923	11,673	8,010	3,663	1,710	450	1,260
STATISTICS	1,964	1,529	435	1,835	1,525	310	129	4	125
LIFE SCIENCES	103,481	72,536	30,945	91,206	67,517	23,689	12,275	5,019	7,256
AGRICULTURAL SCIENCES	12,071	10,048	2,023	11,332	9,623	1,709	739	425	314
BIOLOGICAL SCIENCES	46,420	37,138	9,282	41,292	34,854	6,438	5,128	2,284	2,844
ANATOMY	1,040	958	82	1,040	958	82	0	0	0
BIOCHEMISTRY	3,897	3,619	278	3,858	3,600	258	39	19	20
BIOLOGY	14,376	9,566	4,810	10,276	7,784	2,492	4,100	1,782	2,318
BIOMETRY/EPIDEMIOLOGY	1,207	1,009	198	1,207	1,009	198	0	0	0
BIOPHYSICS	500	487	13	500	487	13	0	0	0
BOTANY	3,434	2,992	442	3,412	2,979	433	22	13	9
CELL BIOLOGY	871	854	17	871	854	17	0	0	0
ECOLOGY	1,056	925	131	1,003	917	86	53	8	45
ENTOMOLOGY/PARASITOLOGY	1,654	1,456	198	1,654	1,456	198	0	0	0
GENETICS	922	858	64	872	811	61	50	47	3
MICRORIOLOGY	3,883	3,392	491	3,697	3,341	356	186	51	135
NUTRITION	4,305	3,158	1,147	4,071	3,064	1,007	234	94	140
PATHOLOGY	1,668	1,193	475	1,430	998	432	238	195	43
PHARMACOLOGY	1,998	1,891	107	1,987	1,890	97	11	1	10
PHYSIOLOGY	2,098	1,891	207	2,098	1,891	207	0	0	0
ZOOLOGY	2,642	2,268	374	2,601	2,247	354	41	21	20
BIOSCIENCES, N.E.C.	869	621	248	715	568	147	154	53	101
HEALTH SCIENCES	44,990	25,350	19,640	38,582	23,040	15,542	6,408	2,310	4,098
ANESTHESIOLOGY	20	16	4	20	16	4	0	0	0
CANCER/ONCOLOGY	46	44	2	46	44	2	0	0	0
CARDIOLOGY	38	30	8	5	5	0	33	25	8
DENTISTRY	1,297	1,017	280	1,297	1,017	280	0	0	0
ENDOCRINOLOGY	51	46	5	51	46	5	0	0	0
GASTROENTEROLOGY	4	3	1	4	3	1	0	0	0
HEMATOLOGY	9	9	0	9	9	0	0	0	0
NEUROLOGY	333	330	3	319	316	3	14	14	0
NURSING	15,834	7,329	8,505	14,199	6,927	7,272	1,635	402	1,233
OBSTETRICS/GYNECOLOGY	13	10	3	13	10	3	0	0	0
OPHTHALMOLOGY	22	19	3	22	19	3	0	0	0
OTORHINOLARYNGOLOGY	15	15	0	15	15	0	0	0	0
PEDIATRICS	121	119	2	121	119	2	0	0	0
PHARMACEUTICAL SCIENCES	2,616	1,693	923	2,590	1,677	913	26	16	10
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	7,160	4,434	2,726	7,064	4,404	2,660	96	30	66
PSYCHIATRY	106	57	49	106	57	49	0	0	0
PULMONARY DISEASE	9	9	0	9	9	0	0	0	0
RADIOLOGY	275	235	40	275	235	40	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	8,696	5,474	3,222	6,645	4,511	2,134	2,051	963	1,088
SURGERY	75	69	6	75	69	6	0	0	0
VETERINARY SCIENCES	927	685	242	904	663	241	23	22	1
CLINICAL MEDICINE, N.E.C.	738	296	442	377	234	143	361	62	299
HEALTH RELATED, N.E.C.	6,585	3,411	3,174	4,416	2,635	1,781	2,169	776	1,393
PSYCHOLOGY	40,756	26,697	14,059	28,957	21,470	7,487	11,799	5,227	6,572
SOCIAL SCIENCES	91,108	55,574	35,534	77,543	51,171	26,372	13,565	4,403	9,162
AGRICULTURAL ECONOMICS	2,258	2,037	221	2,231	2,014	217	27	23	4
ANTHROPOLOGY	6,115	4,324	1,791	5,802	4,245	1,557	313	79	234
ECONOMICS (EXCEPT AGRICULTURAL)	13,271	9,318	3,953	12,334	9,020	3,314	937	298	639
GEOGRAPHY	3,240	2,289	951	2,785	2,101	684	455	188	267
HISTORY AND PHILOSOPHY OF SCIENCE	248	217	31	248	217	31	0	0	0
LINGUISTICS	3,035	2,181	854	2,906	2,167	739	129	14	115
POLITICAL SCIENCE	31,122	14,427	16,695	24,356	12,813	11,543	6,766	1,614	5,152
SOCIOLOGY	8,118	5,582	2,536	7,352	5,299	2,053	766	283	483
SOCIOLOGY/ANTHROPOLOGY	1,056	577	479	967	526	441	89	51	38
SOCIAL SCIENCES, N.E.C.	22,645	14,622	8,023	18,562	12,769	5,793	4,083	1,853	2,230

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-2. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, TYPE OF CONTROL, SEX, AND LEVEL OF DEPARTMENT: 1981

FIELD	TOTAL	TYPE OF CONTROL		SEX		LEVEL OF DEPARTMENT	
		PUBLIC	PRIVATE	MEN	WOMEN	DOCTORATE	MASTER'S
TOTAL, ALL FIELDS	392,034	261,858	130,176	249,573	142,461	266,526	125,508
ENGINEERING	82,977	49,177	33,800	74,515	8,462	64,584	18,393
AEROSPACE	1,849	1,288	561	1,782	67	1,765	84
AGRICULTURAL	812	768	44	768	44	684	128
BIOMEDICAL	1,047	588	459	867	180	961	86
CHEMICAL	6,693	4,445	2,248	5,824	869	6,151	542
CIVIL	12,464	8,348	4,116	11,291	1,173	10,468	1,996
ELECTRICAL	20,160	10,977	9,183	18,890	1,270	17,317	2,843
ENGINEERING SCIENCE	2,015	1,212	803	1,798	217	1,414	601
INDUSTRIAL	12,079	4,591	7,488	10,076	2,003	6,645	5,434
MECHANICAL	10,815	6,824	3,991	10,160	655	9,323	1,492
METALLURGICAL/MATERIALS	3,106	1,799	1,307	2,719	387	2,956	150
MINING	588	506	82	520	68	425	163
NUCLEAR	1,321	993	328	1,234	87	1,279	42
PETROLEUM	521	271	250	469	52	367	154
ENGINEERING, N.E.C.	9,507	6,567	2,940	8,117	1,390	4,829	4,678
PHYSICAL SCIENCES	27,351	19,219	8,132	22,323	5,028	24,303	3,048
ASTRONOMY	597	393	204	506	91	582	15
CHEMISTRY	16,380	11,701	4,679	12,567	3,813	14,349	2,031
PHYSICS	10,184	6,948	3,236	9,138	1,046	9,310	874
PHYSICAL SCIENCES, N.E.C.	190	177	13	112	78	62	128
ENVIRONMENTAL SCIENCES	14,099	11,846	2,253	10,667	3,432	10,635	3,464
ATMOSPHERIC SCIENCES	914	822	92	783	131	810	104
GEOSCIENCES	8,691	7,119	1,572	6,667	2,024	6,750	1,941
OCEANOGRAPHY	2,097	1,859	238	1,543	554	1,922	175
ENVIRONMENTAL SCIENCES, N.E.C.	2,397	2,046	351	1,674	723	1,153	1,244
MATHEMATICAL/COMPUTER SCIENCES	32,262	20,820	11,442	23,590	8,672	19,685	12,577
COMPUTER SCIENCE	16,915	9,945	6,970	12,597	4,318	8,897	8,018
MATHEMATICS AND APPLIED MATHEMATICS	13,383	9,303	4,080	9,560	3,823	9,134	4,249
STATISTICS	1,964	1,572	392	1,433	531	1,654	310
LIFE SCIENCES	103,481	77,573	25,908	49,453	54,028	68,331	35,150
AGRICULTURAL SCIENCES	12,071	11,727	344	9,339	2,732	9,747	2,324
BIOLOGICAL SCIENCES	46,420	34,588	11,832	27,767	18,653	36,654	9,766
ANATOMY	1,040	657	383	662	378	1,026	14
BIOCHEMISTRY	3,897	2,612	1,285	2,598	1,299	3,806	91
BIOLOGY	14,376	10,273	4,103	8,741	5,635	7,769	6,607
BIOMETRY/EPIDEMIOLOGY	1,207	691	516	665	542	1,145	62
BIOPHYSICS	500	310	190	361	139	500	0
BOTANY	3,434	3,152	282	2,245	1,189	3,233	201
CELL BIOLOGY	871	493	378	559	312	871	0
ECOLOGY	1,056	961	95	713	343	998	58
ENTOMOLOGY/PARASITOLOGY	1,654	1,594	60	1,310	344	1,594	60
GENETICS	922	643	279	461	461	872	50
MICROBIOLOGY	3,883	2,905	978	2,201	1,682	3,490	393
NUTRITION	4,305	3,406	899	1,373	2,932	3,267	1,038
PATHOLOGY	1,668	1,054	614	910	758	1,075	593
PHARMACOLOGY	1,998	1,349	649	1,316	682	1,936	62
PHYSIOLOGY	2,098	1,438	660	1,416	682	2,012	86
ZOOLOGY	2,642	2,452	190	1,732	910	2,551	91
BIOSCIENCES, N.E.C.	869	598	271	504	365	509	360
HEALTH SCIENCES	44,990	31,258	13,732	12,347	32,643	21,930	23,060
ANESTHESIOLOGY	20	15	5	4	16	2	18
CANCER/ONCOLOGY	46	46	0	46	0	46	0
CARDIOLOGY	38	0	38	21	17	5	33
DENTISTRY	1,297	855	442	967	330	325	972
ENDOCRINOLOGY	51	51	0	25	26	51	0
GASTROENTEROLOGY	4	3	1	3	1	4	0
HEMATOLOGY	9	6	3	2	7	4	5
NEUROLOGY	333	183	150	227	106	319	14
NURSING	15,834	10,947	4,887	756	15,078	6,541	9,293
OBSTETRICS/GYNECOLOGY	13	2	11	5	8	10	3
OPHTHALMOLOGY	22	13	9	16	6	19	3
OTORHINOLARYNGOLOGY	15	11	4	11	4	10	5
PEDIATRICS	121	92	29	29	92	74	47
PHARMACEUTICAL SCIENCES	2,616	1,723	893	1,844	772	2,262	354
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	7,160	4,532	2,628	3,359	3,801	5,246	1,914
PSYCHIATRY	106	72	34	58	48	106	0
PULMONARY DISEASE	9	7	2	5	4	7	2
RADIOLOGY	275	177	98	215	60	215	60
SPEECH PATHOLOGY/AUDIOLOGY	8,696	7,295	1,401	1,217	7,479	4,247	4,449
SURGERY	75	35	40	63	12	65	10
VETERINARY SCIENCES	927	856	71	589	338	785	142
CLINICAL MEDICINE, N.E.C.	738	507	231	311	427	207	531
HEALTH RELATED, N.E.C.	6,585	3,830	2,755	2,574	4,011	1,380	5,205
PSYCHOLOGY	40,756	23,930	16,826	17,920	22,836	25,622	15,134
SOCIAL SCIENCES	91,108	59,293	31,815	51,105	40,003	53,366	37,742
AGRICULTURAL ECONOMICS	2,258	2,156	102	1,788	470	1,921	337
ANTHROPOLOGY	6,115	4,439	1,676	2,788	3,327	5,056	1,059
ECONOMICS (EXCEPT AGRICULTURAL)	13,271	8,044	5,227	10,102	3,169	10,595	2,676
GEOGRAPHY	3,240	2,964	276	2,230	1,010	1,992	1,248
HISTORY AND PHILOSOPHY OF SCIENCE	248	141	107	159	89	242	6
LINGUISTICS	3,035	1,969	1,066	1,316	1,719	2,333	702
POLITICAL SCIENCE	31,122	17,668	13,454	19,444	11,678	15,366	15,756
SOCIOLOGY	8,118	5,681	2,437	3,953	4,165	6,271	1,847
SOCIOLOGY/ANTHROPOLOGY	1,056	654	402	503	553	586	470
SOCIAL SCIENCES, N.E.C.	22,645	15,577	7,068	8,822	13,823	9,004	13,641

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-3. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, TYPE OF CONTROL, AND ENROLLMENT STATUS: 1981

FIELD	PUBLIC INSTITUTIONS			PRIVATE INSTITUTIONS		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL FIELDS	261,858	180,445	81,413	130,176	72,983	57,193
ENGINEERING	49,177	32,135	17,042	33,800	14,526	19,274
AEROSPACE	1,288	1,019	269	561	430	131
AGRICULTURAL	768	633	135	44	44	0
BIOMEDICAL	588	502	86	459	360	99
CHEMICAL	4,445	3,526	919	2,248	1,617	631
CIVIL	8,348	5,315	3,033	4,116	2,005	2,111
ELECTRICAL	10,977	6,898	4,079	9,183	3,503	5,680
ENGINEERING SCIENCE	1,212	699	513	803	533	270
INDUSTRIAL	4,591	2,840	1,751	7,488	1,107	6,381
MECHANICAL	6,824	4,467	2,357	3,991	2,001	1,990
METALLURGICAL/MATERIALS	1,799	1,506	293	1,307	934	373
MINING	506	391	115	82	79	3
NUCLEAR	993	809	184	328	247	81
PETROLEUM	271	234	37	250	159	91
ENGINEERING, N.E.C.	6,567	3,296	3,271	2,940	1,507	1,433
PHYSICAL SCIENCES	19,219	16,667	2,552	8,132	6,687	1,445
ASTRONOMY	393	362	31	204	203	1
CHEMISTRY	11,701	10,132	1,569	4,679	3,603	1,076
PHYSICS	6,948	6,094	854	3,236	2,868	368
PHYSICAL SCIENCES, N.E.C.	177	79	98	13	13	0
ENVIRONMENTAL SCIENCES	11,846	8,970	2,876	2,253	1,910	343
ATMOSPHERIC SCIENCES	822	691	131	92	81	11
GEOSCIENCES	7,119	5,598	1,521	1,572	1,347	225
OCEANOGRAPHY	1,859	1,415	444	238	222	16
ENVIRONMENTAL SCIENCES, N.E.C.	2,046	1,266	780	351	260	91
MATHEMATICAL/COMPUTER SCIENCES	20,820	12,892	7,928	11,442	4,834	6,608
COMPUTER SCIENCE	9,945	5,511	4,434	6,970	2,226	4,744
MATHEMATICS AND APPLIED MATHEMATICS	9,303	6,090	3,213	4,080	2,370	1,710
STATISTICS	1,572	1,291	281	392	238	154
LIFE SCIENCES	77,573	56,150	21,423	25,908	16,386	9,522
AGRICULTURAL SCIENCES	11,727	9,717	2,010	344	331	13
BIOLOGICAL SCIENCES	34,588	28,136	6,452	11,832	9,002	2,830
ANATOMY	657	607	50	383	351	32
BIOCHEMISTRY	2,612	2,491	121	1,285	1,128	157
BIOLOGY	10,273	6,978	3,295	4,103	2,588	1,515
BIOMETRY/EPIDEMIOLOGY	691	586	105	516	423	93
BIOPHYSICS	310	297	13	190	190	0
BOTANY	3,152	2,744	408	282	248	34
CELL BIOLOGY	493	481	12	378	373	5
ECOLOGY	961	869	92	95	56	39
ENTOMOLOGY/PARASITOLOGY	1,594	1,398	196	60	58	2
GENETICS	643	615	28	279	243	36
MICROBIOLOGY	2,905	2,588	317	978	804	174
NUTRITION	3,406	2,491	915	899	667	232
PATHOLOGY	1,054	813	241	614	380	234
PHARMACOLOGY	1,349	1,292	57	649	599	50
PHYSIOLOGY	1,438	1,286	152	660	605	55
ZOOLOGY	2,452	2,119	333	190	149	41
BIOSCIENCES, N.E.C.	598	481	117	271	140	131
HEALTH SCIENCES	31,258	18,297	12,961	13,732	7,053	6,679
ANESTHESIOLOGY	15	15	0	5	1	4
CANCER/ONCOLOGY	46	44	2	0	0	0
CARDIOLOGY	0	0	0	38	30	8
DENTISTRY	855	671	184	442	346	96
ENDOCRINOLOGY	51	46	5	0	0	0
GASTROENTEROLOGY	3	3	0	1	0	1
HEMATOLOGY	6	6	0	3	3	0
NEUROLOGY	183	180	3	150	150	0
NURSING	10,947	5,078	5,869	4,887	2,251	2,636
OBSTETRICS/GYNECOLOGY	2	0	2	11	10	1
OPHTHALMOLOGY	13	10	3	9	9	0
OTORHINOLARYNGOLOGY	11	11	0	4	4	0
PEDIATRICS	92	91	1	29	28	1
PHARMACEUTICAL SCIENCES	1,723	1,472	251	893	221	672
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,532	3,148	1,384	2,628	1,286	1,342
PSYCHIATRY	72	57	15	34	0	34
PULMONARY DISEASE	7	7	0	2	2	0
RADIOLOGY	177	143	34	98	92	6
SPEECH PATHOLOGY/AUDIOLOGY	7,295	4,490	2,805	1,401	984	417
SURGERY	35	35	0	40	34	6
VETERINARY SCIENCES	856	615	241	71	70	1
CLINICAL MEDICINE, N.E.C.	507	233	274	231	63	168
HEALTH RELATED, N.E.C.	3,830	1,942	1,888	2,755	1,469	1,286
PSYCHOLOGY	23,930	16,448	7,482	16,826	10,249	6,577
SOCIAL SCIENCES	59,293	37,183	22,110	31,815	18,391	13,424
AGRICULTURAL ECONOMICS	2,156	1,937	219	102	100	2
ANTHROPOLOGY	4,439	3,104	1,335	1,676	1,220	456
ECONOMICS (EXCEPT AGRICULTURAL)	8,044	5,938	2,106	5,227	3,380	1,847
GEOGRAPHY	2,964	2,046	918	276	243	33
HISTORY AND PHILOSOPHY OF SCIENCE	141	122	19	107	95	12
LINGUISTICS	1,969	1,439	530	1,066	742	324
POLITICAL SCIENCE	17,668	8,120	9,548	13,454	6,307	7,147
SOCIOLOGY	5,681	3,943	1,738	2,437	1,639	798
SOCIOLOGY/ANTHROPOLOGY	654	413	241	402	164	238
SOCIAL SCIENCES, N.E.C.	15,577	10,121	5,456	7,068	4,501	2,567

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-4. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD AND RACIAL/ETHNIC BACKGROUND: 1981

FIELD	TOTAL	U.S. CITIZENS					FOREIGN, OTHER, OR UNKNOWN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	
TOTAL, ALL FIELDS	392,034	11,032	746	7,746	7,313	217,610	147,587
ENGINEERING	82,977	977	112	2,225	953	38,706	40,004
AEROSPACE	1,849	18	0	45	20	744	1,022
AGRICULTURAL	812	3	15	13	7	401	373
BIOMEDICAL	1,047	7	1	17	9	605	408
CHEMICAL	6,693	62	13	197	76	2,942	3,403
CIVIL	12,464	118	4	372	185	5,731	6,054
ELECTRICAL	20,160	213	34	601	243	8,258	10,811
ENGINEERING SCIENCE	2,015	21	0	26	10	951	1,007
INDUSTRIAL	12,079	268	19	212	167	7,019	4,394
MECHANICAL	10,815	71	4	247	99	4,060	6,334
METALLURGICAL/MATERIALS	3,106	24	1	102	24	1,430	1,525
MINING	588	3	0	10	4	321	250
NUCLEAR	1,321	13	3	34	8	779	484
PETROLEUM	521	2	0	12	3	179	325
ENGINEERING, N.E.C.	9,507	154	18	337	98	5,286	3,614
PHYSICAL SCIENCES	27,351	432	19	637	375	15,699	10,189
ASTRONOMY	597	4	1	3	4	433	152
CHEMISTRY	16,380	316	14	445	247	9,549	5,809
PHYSICS	10,184	108	3	179	123	5,607	4,164
PHYSICAL SCIENCES, N.E.C.	190	4	1	10	1	110	64
ENVIRONMENTAL SCIENCES	14,099	102	16	117	157	9,001	4,706
ATMOSPHERIC SCIENCES	914	3	1	10	20	654	226
GEOSCIENCES	8,691	44	10	70	59	5,689	2,819
OCEANOGRAPHY	2,097	9	2	20	65	1,298	703
ENVIRONMENTAL SCIENCES, N.E.C.	2,397	46	3	17	13	1,360	958
MATHEMATICAL/COMPUTER SCIENCES	32,262	548	12	1,018	363	15,243	15,078
COMPUTER SCIENCE	16,915	244	5	647	135	7,257	8,627
MATHEMATICS AND APPLIED MATHEMATICS	13,383	280	5	328	210	7,038	5,522
STATISTICS	1,964	24	2	43	18	948	929
LIFE SCIENCES	103,481	2,519	176	1,823	1,460	66,675	30,828
AGRICULTURAL SCIENCES	12,071	125	12	122	168	7,577	4,067
BIOLOGICAL SCIENCES	46,420	905	38	942	627	30,618	13,290
ANATOMY	1,040	17	2	24	8	760	229
BIOCHEMISTRY	3,897	53	0	124	36	2,659	1,025
BIOLOGY	14,376	410	17	210	337	9,331	4,071
BIOMETRY/EPIDEMIOLOGY	1,207	31	4	30	4	566	572
BIOPHYSICS	500	6	0	9	4	261	220
BOTANY	3,434	33	2	50	27	2,309	1,013
CELL BIOLOGY	871	6	0	21	15	568	261
ECOLOGY	1,056	2	0	8	8	746	292
ENTOMOLOGY/PARASITOLOGY	1,654	16	1	37	13	1,220	367
GENETICS	922	17	0	33	12	635	225
MICROBIOLOGY	3,883	62	3	107	40	2,490	1,181
NUTRITION	4,305	80	2	85	48	2,746	1,344
PATHOLOGY	1,668	31	2	40	15	978	602
PHARMACOLOGY	1,998	33	1	62	17	1,427	458
PHYSIOLOGY	2,098	31	0	43	22	1,444	558
ZOOLOGY	2,642	58	4	40	10	1,922	608
BIOSCIENCES, N.E.C.	869	19	0	19	11	556	264
HEALTH SCIENCES	44,990	1,489	126	759	665	28,480	13,471
ANESTHESIOLOGY	20	0	0	1	0	16	3
CANCER/ONCOLOGY	46	0	0	0	0	0	46
CARDIOLOGY	38	0	0	0	0	34	4
DENTISTRY	1,297	18	1	24	19	770	465
ENDOCRINOLOGY	51	3	0	2	0	36	10
GASTROENTEROLOGY	4	0	0	0	0	1	3
HEMATOLOGY	9	0	0	0	0	8	1
NEUROLOGY	333	1	0	7	4	256	65
NURSING	15,834	407	25	180	131	10,241	4,850
OBSTETRICS/GYNECOLOGY	13	0	0	3	0	5	5
OPHTHALMOLOGY	22	0	0	1	0	13	8
OTORHINOLARYNGOLOGY	15	0	0	0	0	11	4
PEDIATRICS	121	8	0	1	1	73	38
PHARMACEUTICAL SCIENCES	2,616	32	0	78	30	1,190	1,286
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	7,160	307	53	256	154	4,489	1,901
PSYCHIATRY	106	3	0	4	2	95	2
PULMONARY DISEASE	9	1	0	0	0	6	2
RADIOLOGY	275	9	0	12	2	154	98
SPEECH PATHOLOGY/AUDIOLOGY	8,696	338	17	65	127	6,133	2,016
SURGERY	75	0	0	2	1	47	25
VETERINARY SCIENCES	927	26	1	14	12	580	294
CLINICAL MEDICINE, N.E.C.	738	29	1	33	9	406	260
HEALTH RELATED, N.E.C.	6,585	307	28	76	173	3,916	2,085
PSYCHOLOGY	40,756	1,430	93	406	1,231	23,311	14,285
SOCIAL SCIENCES	91,108	5,024	318	1,520	2,774	48,975	32,497
AGRICULTURAL ECONOMICS	2,258	38	2	23	30	1,249	916
ANTHROPOLOGY	6,115	80	28	52	94	3,942	1,919
ECONOMICS (EXCEPT AGRICULTURAL)	13,271	318	22	208	247	5,972	6,504
GEOGRAPHY	3,240	38	11	24	32	2,224	911
HISTORY AND PHILOSOPHY OF SCIENCE	248	3	1	2	1	182	59
LINGUISTICS	3,035	37	7	37	44	1,502	1,408
POLITICAL SCIENCE	31,122	2,220	74	447	1,249	14,809	12,323
SOCIOLOGY	8,118	523	43	139	246	4,387	2,780
SOCIOLOGY/ANTHROPOLOGY	1,056	86	0	10	20	587	353
SOCIAL SCIENCES, N.E.C.	22,645	1,681	130	578	811	14,121	5,324

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-5. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD AND CATEGORY OF INSTITUTION IN WHICH ENROLLED: 1981

FIELD	TOTAL	INSTITUTIONAL CATEGORY 1/			
		(A) DOCTORATE-GRANTING INSTITUTIONS	(B) COMPREHENSIVE INSTITUTIONS	(C) GENERAL BACCALAUREATE INSTITUTIONS	(D) PROFESSIONAL AND SPECIALIZED INSTITUTIONS
TOTAL, ALL FIELDS	392,034	271,851	92,541	1,866	25,776
ENGINEERING	82,977	60,485	14,489	403	7,600
AEROSPACE	1,849	1,503	117	0	229
AGRICULTURAL	812	771	41	0	0
BIOMEDICAL	1,047	868	126	0	53
CHEMICAL	6,693	5,398	661	0	634
CIVIL	12,464	9,316	2,036	61	1,051
ELECTRICAL	20,160	14,625	3,417	29	2,089
ENGINEERING SCIENCE	2,015	1,560	267	5	183
INDUSTRIAL	12,079	7,078	3,458	133	1,410
MECHANICAL	10,815	8,285	1,470	1	1,059
METALLURGICAL/MATERIALS	3,106	2,528	203	44	331
MINING	588	468	28	9	83
NUCLEAR	1,321	1,207	0	0	114
PETROLEUM	521	418	56	0	47
ENGINEERING, N.E.C.	9,507	6,460	2,609	121	317
PHYSICAL SCIENCES	27,351	22,417	4,030	67	837
ASTRONOMY	597	582	15	0	0
CHEMISTRY	16,380	13,061	2,779	41	499
PHYSICS	10,184	8,733	1,087	24	338
PHYSICAL SCIENCES, N.E.C.	190	41	147	2	0
ENVIRONMENTAL SCIENCES	14,099	10,103	3,269	110	617
ATMOSPHERIC SCIENCES	914	834	55	0	25
GEOSCIENCES	8,691	6,648	1,665	56	322
OCEANOGRAPHY	2,097	1,429	502	49	117
ENVIRONMENTAL SCIENCES, N.E.C.	2,397	1,192	1,047	5	153
MATHEMATICAL/COMPUTER SCIENCES	32,262	18,781	10,367	20	3,094
COMPUTER SCIENCE	16,915	8,457	6,256	0	2,202
MATHEMATICS AND APPLIED MATHEMATICS	13,383	8,524	3,973	20	866
STATISTICS	1,964	1,800	138	0	26
LIFE SCIENCES	103,481	72,437	21,964	484	8,596
AGRICULTURAL SCIENCES	12,071	10,470	1,544	57	0
BIOLOGICAL SCIENCES	46,420	33,730	9,684	129	2,877
ANATOMY	1,040	730	55	0	255
BIOCHEMISTRY	3,897	3,219	277	0	401
BIOLOGY	14,376	7,276	6,884	129	87
BIOMETRY/EPIDEMIOLOGY	1,207	1,062	15	0	130
BIOPHYSICS	500	478	5	0	17
BOTANY	3,434	3,128	306	0	0
CELL BIOLOGY	871	794	15	0	62
ECOLOGY	1,056	866	190	0	0
ENTOMOLOGY/PARASITOLOGY	1,654	1,595	59	0	0
GENETICS	922	831	60	0	31
MICROBIOLOGY	3,883	2,971	430	0	482
NUTRITION	4,305	3,658	494	0	153
PATHOLOGY	1,668	1,102	298	0	268
PHARMACOLOGY	1,998	1,532	56	0	410
PHYSIOLOGY	2,098	1,650	95	0	353
ZOOLOGY	2,642	2,459	183	0	0
BIOSCIENCES, N.E.C.	869	379	262	0	228
HEALTH SCIENCES	44,990	28,237	10,736	298	5,719
ANESTHESIOLOGY	20	17	3	0	0
CANCER/ONCOLOGY	46	46	0	0	0
CARDIOLOGY	38	5	33	0	0
DENTISTRY	1,297	964	69	0	264
ENDOCRINOLOGY	51	18	0	0	33
GASTROENTEROLOGY	4	1	0	0	3
HEMATOLOGY	9	9	0	0	0
NEUROLOGY	333	266	20	0	47
NURSING	15,834	9,744	3,621	14	2,455
OBSTETRICS/GYNECOLOGY	13	4	0	0	9
OPHTHALMOLOGY	22	15	0	0	7
OTORHINOLARYNGOLOGY	15	12	0	0	3
PEDIATRICS	121	118	0	0	3
PHARMACEUTICAL SCIENCES	2,616	2,084	285	0	247
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	7,160	5,189	525	0	1,446
PSYCHIATRY	106	43	0	0	63
PULMONARY DISEASE	9	7	0	0	2
RADIOLOGY	275	244	1	0	30
SPEECH PATHOLOGY/AUDIOLOGY	8,696	5,382	2,887	0	427
SURGERY	75	59	0	0	16
VETERINARY SCIENCES	927	898	29	0	0
CLINICAL MEDICINE, N.E.C.	738	189	264	125	160
HEALTH RELATED, N.E.C.	6,585	2,923	2,999	159	504
PSYCHOLOGY	40,756	20,963	15,497	366	3,930
SOCIAL SCIENCES	91,108	66,665	22,925	416	1,102
AGRICULTURAL ECONOMICS	2,258	2,130	128	0	0
ANTHROPOLOGY	6,115	5,494	581	11	29
ECONOMICS (EXCEPT AGRICULTURAL)	13,271	11,326	1,790	23	132
GEOGRAPHY	3,240	2,454	786	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	248	237	0	0	11
LINGUISTICS	3,035	2,425	610	0	0
POLITICAL SCIENCE	31,122	20,173	10,306	54	589
SOCIOLOGY	8,118	6,832	1,239	0	47
SOCIOLOGY/ANTHROPOLOGY	1,056	810	227	12	7
SOCIAL SCIENCES, N.E.C.	22,645	14,784	7,258	316	287

1/ BASED ON CLASSIFICATIONS DEVISED BY THE NATIONAL CENTER FOR EDUCATION STATISTICS.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-6. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION, HIGHEST DEGREE GRANTED, AND ENROLLMENT STATUS: 1981

DIVISION AND STATE	ALL INSTITUTIONS			DOCTORATE-GRANTING			MASTER'S-GRANTING		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL INSTITUTIONS	392,034	253,428	138,606	340,203	234,529	105,674	51,831	18,899	32,932
NEW ENGLAND	30,559	20,185	10,374	26,256	19,449	6,807	4,303	736	3,567
CONNECTICUT	6,650	4,005	2,645	4,053	3,567	486	2,597	438	2,159
MAINE	395	313	82	395	313	82	0	0	0
MASSACHUSETTS	20,304	13,525	6,779	18,771	13,257	5,514	1,533	268	1,265
NEW HAMPSHIRE	771	613	158	733	613	120	38	0	38
RHODE ISLAND	1,868	1,325	543	1,739	1,301	438	129	24	105
VERMONT	571	404	167	565	398	167	6	6	0
MIDDLE ATLANTIC	72,915	38,046	34,869	64,784	36,243	28,541	8,131	1,803	6,328
NEW JERSEY	10,487	4,259	6,228	9,332	4,091	5,241	1,155	168	987
NEW YORK	43,173	22,778	20,395	38,526	21,754	16,772	4,647	1,024	3,623
PENNSYLVANIA	19,255	11,009	8,246	16,926	10,398	6,528	2,329	611	1,718
EAST NORTH CENTRAL	66,268	46,578	19,690	59,666	43,666	16,000	6,602	2,912	3,690
ILLINOIS	19,512	12,653	6,859	16,086	11,488	4,598	3,426	1,165	2,261
INDIANA	8,091	5,838	2,253	7,694	5,751	1,943	397	87	310
MICHIGAN	12,871	9,379	3,492	12,135	9,100	3,035	736	279	457
OHIO	17,020	12,052	4,968	15,873	11,086	4,787	1,147	966	181
WISCONSIN	8,774	6,656	2,118	7,878	6,241	1,637	896	415	481
WEST NORTH CENTRAL	25,472	18,712	6,760	23,555	17,827	5,728	1,917	885	1,032
IOWA	4,536	3,517	1,019	4,385	3,478	907	151	39	112
KANSAS	5,106	3,662	1,444	4,234	3,308	926	872	354	518
MINNESOTA	5,702	4,646	1,056	5,209	4,360	849	493	286	207
MISSOURI	6,204	4,074	2,130	5,815	3,878	1,937	389	196	193
NEBRASKA	2,339	1,542	797	2,327	1,532	795	12	10	2
NORTH DAKOTA	913	758	155	913	758	155	0	0	0
SOUTH DAKOTA	672	513	159	672	513	159	0	0	0
SOUTH ATLANTIC	56,475	33,735	22,740	51,128	32,015	19,113	5,347	1,720	3,627
DELAWARE	1,138	728	410	1,138	728	410	0	0	0
DISTRICT OF COLUMBIA	9,760	3,809	5,951	9,652	3,737	5,915	108	72	36
FLORIDA	11,338	6,486	4,852	10,351	6,065	4,286	987	421	566
GEORGIA	6,096	4,579	1,517	5,659	4,380	1,279	437	199	238
MARYLAND	7,447	3,908	3,539	5,431	3,563	1,868	2,016	345	1,671
NORTH CAROLINA	7,307	5,838	1,469	6,661	5,486	1,175	646	352	294
SOUTH CAROLINA	2,960	1,963	997	2,814	1,926	888	146	37	109
VIRGINIA	7,478	5,125	2,353	7,015	4,868	2,147	463	257	206
WEST VIRGINIA	2,951	1,299	1,652	2,407	1,262	1,145	544	37	507
EAST SOUTH CENTRAL	14,936	10,107	4,829	12,781	9,131	3,650	2,155	976	1,179
ALABAMA	3,913	2,751	1,162	3,411	2,477	934	502	274	228
KENTUCKY	3,369	2,190	1,179	2,709	1,885	824	660	305	355
MISSISSIPPI	2,041	1,543	498	1,830	1,441	389	211	102	109
TENNESSEE	5,613	3,623	1,990	4,831	3,328	1,503	782	295	487
WEST SOUTH CENTRAL	32,764	21,350	11,414	28,399	19,646	8,753	4,365	1,704	2,661
ARKANSAS	1,642	1,082	560	1,164	864	300	478	218	260
LOUISIANA	4,299	2,966	1,333	3,862	2,769	1,093	437	197	240
OKLAHOMA	3,581	2,595	986	3,474	2,549	925	107	46	61
TEXAS	23,242	14,707	8,535	19,899	13,464	6,435	3,343	1,243	2,100
MOUNTAIN	22,183	16,301	5,882	21,547	15,961	5,586	636	340	296
ARIZONA	5,593	3,819	1,774	5,593	3,819	1,774	0	0	0
COLORADO	6,934	5,261	1,673	6,885	5,237	1,648	49	24	25
IDAHO	960	621	339	960	621	339	0	0	0
MONTANA	851	789	62	805	746	59	46	43	3
NEVADA	755	510	245	541	418	123	214	92	122
NEW MEXICO	2,623	1,785	838	2,296	1,604	692	327	181	146
UTAH	3,737	2,851	886	3,737	2,851	886	0	0	0
WYOMING	730	665	65	730	665	65	0	0	0
PACIFIC	68,442	47,007	21,435	50,100	39,199	10,901	18,342	7,808	10,534
ALASKA	538	281	257	317	229	88	221	52	169
CALIFORNIA	55,807	37,229	18,578	38,980	30,132	8,848	16,827	7,097	9,730
HAWAII	1,967	1,693	274	1,967	1,693	274	0	0	0
OREGON	3,424	2,775	649	3,141	2,619	522	283	156	127
WASHINGTON	6,706	5,029	1,677	5,695	4,526	1,169	1,011	503	508
OUTLYING AREAS	2,020	1,407	613	1,987	1,392	595	33	15	18

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-7. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1981

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	253,428	85,202	168,226	198,425	55,003	165,222	88,206	180,445	72,983
ENGINEERING	46,661	17,057	29,604	26,775	19,886	41,782	4,879	32,135	14,526
AEROSPACE	1,449	563	886	848	601	1,398	51	1,019	430
AGRICULTURAL	677	228	449	376	301	634	43	633	44
BIOMEDICAL	862	266	596	707	155	712	150	502	360
CHEMICAL	5,143	1,755	3,388	2,899	2,244	4,547	596	3,526	1,617
CIVIL	7,320	2,887	4,433	3,965	3,355	6,592	728	5,315	2,005
ELECTRICAL	10,401	4,015	6,386	5,625	4,776	9,692	709	6,898	3,503
ENGINEERING SCIENCE	1,232	331	901	856	376	1,118	114	699	533
INDUSTRIAL	3,947	1,381	2,566	2,271	1,676	3,210	737	2,840	1,107
MECHANICAL	6,468	2,528	3,940	3,422	3,046	6,109	359	4,467	2,001
METALLURGICAL/MATERIALS	2,440	618	1,822	1,333	1,107	2,156	284	1,506	934
MINING	470	156	314	303	167	410	60	391	79
NUCLEAR	1,056	331	725	616	440	982	74	809	247
PETROLEUM	393	114	279	198	195	359	34	234	159
ENGINEERING, N.E.C.	4,803	1,884	2,919	3,356	1,447	3,863	940	3,296	1,507
PHYSICAL SCIENCES	23,354	6,123	17,231	17,105	6,249	19,318	4,036	16,667	6,687
ASTRONOMY	565	127	438	472	93	482	83	362	203
CHEMISTRY	13,735	3,627	10,108	10,527	3,208	10,718	3,017	10,132	3,603
PHYSICS	8,962	2,331	6,631	6,025	2,937	8,058	904	6,094	2,868
PHYSICAL SCIENCES, N.E.C.	92	38	54	81	11	60	32	79	13
ENVIRONMENTAL SCIENCES	10,880	3,424	7,456	9,384	1,496	8,293	2,587	8,970	1,910
ATMOSPHERIC SCIENCES	772	252	520	593	179	659	113	691	81
GEOSCIENCES	6,945	2,232	4,713	6,072	873	5,341	1,604	5,598	1,347
OCEANOGRAPHY	1,637	416	1,221	1,387	250	1,213	424	1,415	222
ENVIRONMENTAL SCIENCES, N.E.C.	1,526	524	1,002	1,332	194	1,080	446	1,266	260
MATHEMATICAL/COMPUTER SCIENCES	17,726	6,372	11,354	11,511	6,215	13,412	4,314	12,892	4,834
COMPUTER SCIENCE	7,737	2,996	4,741	5,090	2,647	5,928	1,809	5,511	2,226
MATHEMATICS AND APPLIED MATHEMATICS	8,460	2,957	5,503	5,577	2,883	6,356	2,104	6,090	2,370
STATISTICS	1,529	419	1,110	844	685	1,128	401	1,291	238
LIFE SCIENCES	72,536	24,035	48,501	63,108	9,428	38,815	33,721	56,150	16,386
AGRICULTURAL SCIENCES	10,048	2,883	7,165	7,672	2,376	7,708	2,340	9,717	331
BIOLOGICAL SCIENCES	37,138	9,962	27,176	32,425	4,713	23,049	14,089	28,136	9,002
ANATOMY	958	220	738	882	76	614	344	607	351
BIOCHEMISTRY	3,619	865	2,754	3,054	565	2,427	1,192	2,491	1,128
BIOLOGY	9,566	2,722	6,844	8,689	877	6,080	3,486	6,978	2,588
BIOMETRY/EPIDEMIOLOGY	1,009	344	665	850	159	574	435	586	423
BIOPHYSICS	487	98	389	412	75	354	133	297	190
BOTANY	2,992	752	2,240	2,461	531	1,971	1,021	2,744	248
CELL BIOLOGY	854	176	678	777	77	550	304	481	373
ECOLOGY	925	207	718	852	73	628	297	869	56
ENTOMOLOGY/PARASITOLOGY	1,456	338	1,118	1,197	259	1,153	303	1,398	58
GENETICS	858	224	634	762	96	442	416	615	243
MICROBIOLOGY	3,392	866	2,526	3,020	372	1,955	1,437	2,588	804
NUTRITION	3,158	938	2,220	2,331	827	1,199	1,959	2,491	667
PATHOLOGY	1,193	462	731	1,029	164	711	482	813	380
PHARMACOLOGY	1,891	454	1,437	1,694	197	1,255	636	1,292	599
PHYSIOLOGY	1,891	585	1,306	1,717	174	1,275	616	1,286	605
ZOOLOGY	2,268	539	1,729	2,132	136	1,502	766	2,119	149
BIOSCIENCES, N.E.C.	621	172	449	566	55	359	262	481	140
HEALTH SCIENCES	25,350	11,190	14,160	23,011	2,339	8,058	17,292	18,297	7,053
ANESTHESIOLOGY	16	5	11	15	1	4	12	15	1
CANCER/ONCOLOGY	44	0	44	38	6	44	0	44	0
CARDIOLOGY	30	24	6	29	1	17	13	0	30
DENTISTRY	1,017	386	631	767	250	795	222	671	346
ENDOCRINOLOGY	46	8	38	43	3	21	25	46	0
GASTROENTEROLOGY	3	0	3	2	1	3	0	3	0
HEMATOLOGY	9	2	7	9	0	2	7	6	3
NEUROLOGY	330	69	261	305	25	225	105	180	150
NURSING	7,329	3,575	3,754	7,102	227	369	6,960	5,078	2,251
OBSTETRICS/GYNECOLOGY	10	5	5	8	2	4	6	0	10
OPHTHALMOLOGY	19	5	14	16	3	15	4	10	9
OTORHINOLARYNGOLOGY	15	4	11	15	0	11	4	11	4
PEDIATRICS	119	10	109	111	8	28	91	91	28
PHARMACEUTICAL SCIENCES	1,693	510	1,183	1,152	541	1,184	509	1,472	221
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,434	2,261	2,173	3,865	569	2,109	2,325	3,148	1,286
PSYCHIATRY	57	5	52	57	0	28	29	57	0
PULMONARY DISEASE	9	3	6	9	0	5	4	7	2
RADIOLOGY	235	51	184	200	35	186	49	143	92
SPEECH PATHOLOGY/AUDIOLOGY	5,474	2,475	2,999	5,230	244	854	4,620	4,490	984
SURGERY	69	19	50	64	5	60	9	35	34
VETERINARY SCIENCES	685	176	509	463	222	446	239	615	70
CLINICAL MEDICINE, N.E.C.	296	100	196	260	36	161	135	233	63
HEALTH RELATED, N.E.C.	3,411	1,497	1,914	3,251	160	1,487	1,924	1,942	1,469
PSYCHOLOGY	26,697	8,126	18,571	25,695	1,002	12,058	14,639	16,448	10,249
SOCIAL SCIENCES	55,574	20,065	35,509	44,847	10,727	31,544	24,030	37,183	18,391
AGRICULTURAL ECONOMICS	2,037	674	1,363	1,267	770	1,599	438	1,937	100
ANTHROPOLOGY	4,324	962	3,362	3,896	428	1,985	2,339	3,104	1,220
ECONOMICS (EXCEPT AGRICULTURAL)	9,318	3,057	6,261	5,658	3,660	7,283	2,035	5,938	3,380
GEOGRAPHY	2,289	794	1,495	1,912	377	1,577	712	2,046	243
HISTORY AND PHILOSOPHY OF SCIENCE	217	26	191	187	30	142	75	122	95
LINGUISTICS	2,181	743	1,438	1,448	733	979	1,202	1,439	742
POLITICAL SCIENCE	14,427	5,672	8,755	11,852	2,575	9,599	4,826	8,120	6,307
SOCIOLOGY	5,582	1,439	4,143	4,513	1,069	2,800	2,782	3,943	1,639
SOCIOLOGY/ANTHROPOLOGY	577	196	381	483	94	282	295	413	164
SOCIAL SCIENCES, N.E.C.	14,622	6,502	8,120	13,631	991	5,298	9,324	10,121	4,501

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-8. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1981

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	234,529	76,648	157,881	181,870	52,659	155,371	79,158	167,369	67,160
ENGINEERING	45,366	16,591	28,775	26,023	19,343	40,594	4,772	31,334	14,032
AEROSPACE	1,446	563	883	848	598	1,395	51	1,019	427
AGRICULTURAL	677	228	449	376	301	634	43	633	44
BIOMEDICAL	848	261	587	694	154	699	149	488	360
CHEMICAL	5,083	1,709	3,374	2,868	2,215	4,493	590	3,512	1,571
CIVIL	7,093	2,817	4,276	3,829	3,264	6,382	711	5,165	1,928
ELECTRICAL	10,145	3,924	6,221	5,503	4,642	9,449	696	6,757	3,388
ENGINEERING SCIENCE	1,216	327	889	844	372	1,103	113	694	522
INDUSTRIAL	3,737	1,297	2,440	2,155	1,582	3,025	712	2,703	1,034
MECHANICAL	6,383	2,502	3,881	3,387	2,996	6,028	355	4,436	1,947
METALLURGICAL/MATERIALS	2,422	610	1,812	1,321	1,101	2,141	281	1,488	934
MINING	453	145	308	291	162	395	58	374	79
NUCLEAR	1,056	331	725	616	440	982	74	809	247
PETROLEUM	390	113	277	198	192	356	34	231	159
ENGINEERING, N.E.C.	4,417	1,764	2,653	3,093	1,324	3,512	905	3,025	1,392
PHYSICAL SCIENCES	22,634	5,843	16,791	16,578	6,056	18,790	3,844	16,084	6,550
ASTRONOMY	565	127	438	472	93	482	83	362	203
CHEMISTRY	13,170	3,407	9,763	10,114	3,056	10,323	2,847	9,688	3,482
PHYSICS	8,840	2,283	6,557	5,940	2,900	7,949	891	5,987	2,853
PHYSICAL SCIENCES, N.E.C.	59	26	33	52	7	36	23	47	12
ENVIRONMENTAL SCIENCES	10,247	3,149	7,098	8,807	1,440	7,850	2,397	8,479	1,768
ATMOSPHERIC SCIENCES	766	249	517	587	179	653	113	685	81
GEOSCIENCES	6,761	2,163	4,598	5,896	865	5,204	1,557	5,414	1,347
OCEANOGRAPHY	1,604	383	1,221	1,355	249	1,180	424	1,382	222
ENVIRONMENTAL SCIENCES, N.E.C.	1,116	354	762	969	147	813	303	998	118
MATHEMATICAL/COMPUTER SCIENCES	16,124	5,718	10,406	10,404	5,720	12,305	3,819	11,812	4,312
COMPUTER SCIENCE	6,589	2,557	4,032	4,327	2,262	5,098	1,491	4,855	1,734
MATHEMATICS AND APPLIED MATHEMATICS	8,010	2,745	5,265	5,237	2,773	6,082	1,928	5,670	2,340
STATISTICS	1,525	416	1,109	840	685	1,125	400	1,287	238
LIFE SCIENCES	67,517	21,854	45,663	58,459	9,058	36,562	30,955	52,287	15,230
AGRICULTURAL SCIENCES	9,623	2,793	6,830	7,335	2,288	7,387	2,236	9,344	279
BIOLOGICAL SCIENCES	34,854	8,987	25,867	30,366	4,488	21,696	13,158	26,107	8,747
ANATOMY	958	220	738	882	76	614	344	607	351
BIOCHEMISTRY	3,600	865	2,735	3,040	560	2,427	1,173	2,491	1,109
BIOLOGY	7,784	2,085	5,699	7,061	723	4,921	2,863	5,332	2,452
BIOMETRY/EPIDEMIOLOGY	1,009	344	665	850	159	574	435	586	423
BIOPHYSICS	487	98	389	412	75	354	133	297	190
BOTANY	2,979	748	2,231	2,448	531	1,964	1,015	2,732	247
CELL BIOLOGY	854	176	678	777	77	550	304	481	373
ECOLOGY	917	200	717	845	72	625	292	862	55
ENTOMOLOGY/PARASITOLOGY	1,456	338	1,118	1,197	259	1,153	303	1,398	58
GENETICS	811	199	612	717	94	439	372	615	196
MICROBIOLOGY	3,341	846	2,495	2,978	363	1,943	1,398	2,542	799
NUTRITION	3,064	901	2,163	2,271	793	1,159	1,905	2,398	666
PATHOLOGY	998	267	731	848	150	627	371	620	378
PHARMACOLOGY	1,890	454	1,436	1,693	197	1,254	636	1,292	598
PHYSIOLOGY	1,891	585	1,306	1,717	174	1,275	616	1,286	605
ZOOLOGY	2,247	527	1,720	2,113	134	1,487	760	2,103	144
BIOSCIENCES, N.E.C.	568	134	434	517	51	330	238	465	103
HEALTH SCIENCES	23,040	10,074	12,966	20,758	2,282	7,479	15,561	16,836	6,204
ANESTHESIOLOGY	16	5	11	15	1	4	12	15	1
CANCER/ONCOLOGY	44	0	44	38	6	44	0	44	0
CARDIOLOGY	5	0	5	4	1	5	0	0	5
DENTISTRY	1,017	386	631	767	250	795	222	671	346
ENDOCRINOLOGY	46	8	38	43	3	21	25	46	0
GASTROENTEROLOGY	3	0	3	2	1	3	0	3	0
HEMATOLOGY	9	2	7	9	0	2	7	6	3
NEUROLOGY	316	61	255	292	24	219	97	180	136
NURSING	6,927	3,416	3,511	6,705	222	341	6,586	4,874	2,053
OBSTETRICS/GYNECOLOGY	10	5	5	8	2	4	6	0	10
OPHTHALMOLOGY	19	5	14	16	3	15	4	10	9
OTORHINOLARYNGOLOGY	15	4	11	15	0	11	4	11	4
PEDIATRICS	119	10	109	111	8	28	91	91	28
PHARMACEUTICAL SCIENCES	1,677	494	1,183	1,139	538	1,168	509	1,457	220
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,404	2,240	2,164	3,837	567	2,103	2,301	3,118	1,286
PSYCHIATRY	57	5	52	57	0	28	29	57	0
PULMONARY DISEASE	9	3	6	9	0	5	4	7	2
RADIOLOGY	235	51	184	200	35	186	49	143	92
SPEECH PATHOLOGY/AUDIOLOGY	4,511	1,994	2,517	4,282	229	745	3,766	3,679	832
SURGERY	69	19	50	64	5	60	9	35	34
VETERINARY SCIENCES	663	173	490	452	211	431	232	615	48
CLINICAL MEDICINE, N.E.C.	234	69	165	201	33	140	94	200	34
HEALTH RELATED, N.E.C.	2,635	1,124	1,511	2,492	143	1,121	1,514	1,574	1,061
PSYCHOLOGY	21,470	5,553	15,917	20,639	831	10,146	11,324	12,969	8,501
SOCIAL SCIENCES	51,171	17,940	33,231	40,960	10,211	29,124	22,047	34,404	16,767
AGRICULTURAL ECONOMICS	2,014	667	1,347	1,257	757	1,581	433	1,914	100
ANTHROPOLOGY	4,245	928	3,317	3,823	422	1,943	2,302	3,026	1,219
ECONOMICS (EXCEPT AGRICULTURAL)	9,020	2,912	6,108	5,510	3,510	7,053	1,967	5,755	3,265
GEOGRAPHY	2,101	723	1,378	1,749	352	1,443	658	1,858	243
HISTORY AND PHILOSOPHY OF SCIENCE	217	26	191	187	30	142	75	122	95
LINGUISTICS	2,167	741	1,426	1,435	732	972	1,195	1,425	742
POLITICAL SCIENCE	12,813	4,904	7,909	10,400	2,413	8,592	4,221	7,047	5,766
SOCIOLOGY	5,299	1,307	3,992	4,257	1,042	2,670	2,629	3,676	1,623
SOCIOLOGY/ANTHROPOLOGY	526	167	359	435	91	260	266	373	153
SOCIAL SCIENCES, N.E.C.	12,769	5,565	7,204	11,907	862	4,468	8,301	9,208	3,561

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-9. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1981

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	18,899	8,554	10,345	16,555	2,344	9,851	9,048	13,076	5,823
ENGINEERING	1,295	466	829	752	543	1,188	107	801	494
AEROSPACE	3	0	3	0	3	3	0	0	3
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	14	5	9	13	1	13	1	14	0
CHEMICAL	60	46	14	31	29	54	6	14	46
CIVIL	227	70	157	136	91	210	17	150	77
ELECTRICAL	256	91	165	122	134	243	13	141	115
ENGINEERING SCIENCE	16	4	12	12	4	15	1	5	11
INDUSTRIAL	210	84	126	116	94	185	25	137	73
MECHANICAL	85	26	59	35	50	81	4	31	54
METALLURGICAL/MATERIALS	18	8	10	12	6	15	3	18	0
MINING	17	11	6	12	5	15	2	17	0
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	3	1	2	0	3	3	0	3	0
ENGINEERING, N.E.C.	386	120	266	263	123	351	35	271	115
PHYSICAL SCIENCES	720	280	440	527	193	528	192	583	137
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	565	220	345	413	152	395	170	444	121
PHYSICS	122	48	74	85	37	109	13	107	15
PHYSICAL SCIENCES, N.E.C.	33	12	21	29	4	24	9	32	1
ENVIRONMENTAL SCIENCES	633	275	358	577	56	443	190	491	142
ATMOSPHERIC SCIENCES	6	3	3	6	0	6	0	6	0
GEOSCIENCES	184	69	115	176	8	137	47	184	0
OCEANOGRAPHY	33	33	0	32	1	33	0	33	0
ENVIRONMENTAL SCIENCES, N.E.C.	410	170	240	363	47	267	143	268	142
MATHEMATICAL/COMPUTER SCIENCES	1,602	654	948	1,107	495	1,107	495	1,080	522
COMPUTER SCIENCE	1,148	439	709	763	385	830	318	656	492
MATHEMATICS AND APPLIED MATHEMATICS	450	212	238	340	110	274	176	420	30
STATISTICS	4	3	1	4	0	3	1	4	0
LIFE SCIENCES	5,019	2,181	2,838	4,649	370	2,253	2,766	3,863	1,156
AGRICULTURAL SCIENCES	425	90	335	337	88	321	104	373	52
BIOLOGICAL SCIENCES	2,284	975	1,309	2,059	225	1,353	931	2,029	255
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	19	0	19	14	5	0	19	0	19
BIOLOGY	1,782	637	1,145	1,628	154	1,159	623	1,646	136
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	13	4	9	13	0	7	6	12	1
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	8	7	1	7	1	3	5	7	1
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	47	25	22	45	2	3	44	0	47
MICROBIOLOGY	51	20	31	42	9	12	39	46	5
NUTRITION	94	37	57	60	34	40	54	93	1
PATHOLOGY	195	195	0	181	14	84	111	193	2
PHARMACOLOGY	1	0	1	1	0	1	0	0	1
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	21	12	9	19	2	15	6	16	5
BIOSCIENCES, N.E.C.	53	38	15	49	4	29	24	16	37
HEALTH SCIENCES	2,310	1,116	1,194	2,253	57	579	1,731	1,461	849
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	25	24	1	25	0	12	13	0	25
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	14	8	6	13	1	6	8	0	14
NURSING	402	159	243	397	5	28	374	204	198
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	16	16	0	13	3	16	0	15	1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	30	21	9	28	2	6	24	30	0
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	963	481	482	948	15	109	854	811	152
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	3	19	11	11	15	7	0	22
CLINICAL MEDICINE, N.E.C.	62	31	31	59	3	21	41	33	29
HEALTH RELATED, N.E.C.	776	373	403	759	17	366	410	368	408
PSYCHOLOGY	5,227	2,573	2,654	5,056	171	1,912	3,315	3,479	1,748
SOCIAL SCIENCES	4,403	2,125	2,278	3,887	516	2,420	1,983	2,779	1,624
AGRICULTURAL ECONOMICS	23	7	16	10	13	18	5	23	0
ANTHROPOLOGY	79	34	45	73	6	42	37	78	1
ECONOMICS (EXCEPT AGRICULTURAL)	298	145	153	148	150	230	68	183	115
GEOGRAPHY	188	71	117	163	25	134	54	188	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	14	2	12	13	1	7	7	14	0
POLITICAL SCIENCE	1,614	768	846	1,452	162	1,007	607	1,073	541
SOCIOLOGY	283	132	151	256	27	130	153	267	16
SOCIOLOGY/ANTHROPOLOGY	51	29	22	48	3	22	29	40	11
SOCIAL SCIENCES, N.E.C.	1,853	937	916	1,724	129	830	1,023	913	940

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-10. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1981

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/-COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	253,428	46,661	23,354	10,880	17,726	72,536	26,497	55,574
FEDERAL, TOTAL	52,073	11,094	7,997	2,909	1,796	20,489	3,050	4,738
DEPT OF DEFENSE	5,657	3,099	796	304	732	316	144	266
DEPT OF HHS, TOTAL	18,349	575	1,539	58	81	13,073	1,662	1,361
NIH	11,327	431	1,432	20	68	7,909	925	542
OTHER HHS	7,022	144	107	38	13	5,164	737	819
NSF	9,154	2,350	3,034	1,204	606	1,250	246	464
ALL OTHER FEDERAL	18,913	5,070	2,628	1,343	377	5,850	998	2,647
INSTITUTIONAL SUPPORT	94,205	14,584	12,341	4,005	9,083	24,627	9,423	20,142
OTHER OUTSIDE SUPPORT, TOTAL	23,059	7,052	1,460	1,142	1,205	6,288	1,512	4,400
ALL OTHER U.S.	14,179	4,820	1,087	771	635	3,524	1,420	1,922
FOREIGN	8,880	2,232	373	371	570	2,764	92	2,478
SELF-SUPPORT	84,091	13,931	1,556	2,824	5,642	21,132	12,712	26,294
MEN:								
TOTAL, ALL SOURCES	165,222	41,782	19,318	8,293	13,412	38,815	12,058	31,544
FEDERAL, TOTAL	35,210	10,190	6,829	2,241	1,555	10,288	1,511	2,596
DEPT OF DEFENSE	5,170	2,964	723	259	678	217	100	229
DEPT OF HHS, TOTAL	9,025	464	1,205	36	69	6,033	761	457
NIH	7,121	368	1,117	13	62	4,904	434	223
OTHER HHS	1,904	96	88	23	7	1,129	327	234
NSF	7,482	2,169	2,613	919	514	855	125	287
ALL OTHER FEDERAL	13,533	4,593	2,288	1,027	294	3,183	525	1,623
INSTITUTIONAL SUPPORT	63,781	13,040	9,995	2,967	6,778	14,589	4,439	11,973
OTHER OUTSIDE SUPPORT, TOTAL	18,012	6,426	1,216	923	988	4,593	777	3,089
ALL OTHER U.S.	10,432	4,309	894	589	509	2,277	738	1,116
FOREIGN	7,580	2,117	322	334	479	2,316	39	1,973
SELF-SUPPORT	48,219	12,126	1,278	2,162	4,091	9,345	5,3[illegible]1	13,886
WOMEN:								
TOTAL, ALL SOURCES	88,206	4,879	4,036	2,587	4,314	33,721	14,639	24,030
FEDERAL, TOTAL	16,863	904	1,168	668	241	10,201	1,539	2,142
DEPT OF DEFENSE	487	135	73	45	54	99	44	37
DEPT OF HHS, TOTAL	9,324	111	334	22	12	7,040	901	904
NIH	4,206	63	315	7	6	3,005	491	319
OTHER HHS	5,118	48	19	15	6	4,035	410	585
NSF	1,672	181	421	285	92	395	121	177
ALL OTHER FEDERAL	5,380	477	340	316	83	2,667	473	1,024
INSTITUTIONAL SUPPORT	30,424	1,544	2,346	1,038	2,305	10,038	4,984	8,169
OTHER OUTSIDE SUPPORT, TOTAL	5 047	626	244	219	217	1,695	735	1,311
ALL OTHER U.S.	3 747	511	193	182	126	1,247	682	806
FOREIGN	1,300	115	51	37	91	448	53	505
SELF-SUPPORT	35,872	1,805	278	662	1,551	11,787	7,381	12,408

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-11. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1981

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/-COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	234,529	45,366	22,634	10,247	16,124	67,517	21,470	51,171
FEDERAL, TOTAL	50,844	11,043	7,940	2,864	1,718	19,886	2,891	4,502
DEPT OF DEFENSE	5,608	3,078	796	304	728	307	139	256
DEPT OF HHS, TOTAL	17,986	571	1,515	55	81	12,828	1,632	1,304
NIH	11,175	431	1,408	17	68	7,846	897	508
OTHER HHS	6,811	140	107	38	13	4,982	735	796
NSF	9,056	2,348	3,027	1,197	603	1,185	243	453
ALL OTHER FEDERAL	18,194	5,046	2,602	1,308	306	5,566	877	2,489
INSTITUTIONAL SUPPORT	90,441	14,325	11,926	3,866	8,741	23,460	8,595	19,528
OTHER OUTSIDE SUPPORT, TOTAL	22,276	6,823	1,405	1,073	1,140	6,150	1,487	4,198
ALL OTHER U.S.	13,745	4,690	1,041	707	631	3,442	1,412	1,822
FOREIGN	8,531	2,133	364	366	509	2,708	75	2,376
SELF-SUPPORT	70,968	13,175	1,363	2,444	4,525	18,021	8,497	22,943
MEN:								
TOTAL, ALL SOURCES	155,371	40,594	18,790	7,850	12,305	36,562	10,146	29,124
FEDERAL, TOTAL	34,570	10,145	6,798	2,204	1,503	10,041	1,418	2,461
DEPT OF DEFENSE	5,126	2,943	723	259	675	210	96	220
DEPT OF HHS, TOTAL	8,911	461	1,195	34	69	5,965	750	437
NIH	7,060	368	1,107	11	62	4,876	425	211
OTHER HHS	1,851	93	88	23	7	1,089	325	226
NSF	7,422	2,167	2,608	915	512	814	124	282
ALL OTHER FEDERAL	13,111	4,574	2,272	996	247	3,052	448	1,522
INSTITUTIONAL SUPPORT	61,653	12,813	9,689	2,871	6,571	14,030	4,080	11,599
OTHER OUTSIDE SUPPORT, TOTAL	17,438	6,211	1,176	878	939	4,515	770	2,949
ALL OTHER U.S.	10,135	4,188	861	549	506	2,235	736	1,060
FOREIGN	7,303	2,023	315	329	433	2,280	34	1,889
SELF-SUPPORT	41,710	11,425	1,127	1,897	3,292	7,976	3,878	12,115
WOMEN:								
TOTAL, ALL SOURCES	79,158	4,772	3,844	2,397	3,819	30,955	11,324	22,047
FEDERAL, TOTAL	16,274	898	1,142	660	215	9,845	1,473	2,041
DEPT OF DEFENSE	482	135	73	45	53	97	43	36
DEPT OF HHS, TOTAL	9,075	110	320	21	12	6,863	882	867
NIH	4,115	63	301	6	6	2,970	472	297
OTHER HHS	4,960	47	19	15	6	3,893	410	570
NSF	1,634	181	419	282	91	371	119	171
ALL OTHER FEDERAL	5,083	472	330	312	59	2,514	429	967
INSTITUTIONAL SUPPORT	28,788	1,512	2,237	995	2,170	9,430	4,515	7,929
OTHER OUTSIDE SUPPORT, TOTAL	4,838	612	229	195	201	1,635	717	1,249
ALL OTHER U.S.	3,610	502	180	158	125	1,207	676	762
FOREIGN	1,228	110	49	37	76	428	41	487
SELF-SUPPORT	29,258	1,750	236	547	1,233	10,045	4,619	10,828

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-12. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1981

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/-COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	18,899	1,295	720	633	1,602	5,019	5,227	4,403
FEDERAL, TOTAL	1,229	51	57	45	78	603	159	236
DEPT OF DEFENSE	49	21	0	0	4	9	5	10
DEPT OF HHS, TOTAL	363	4	24	3	0	245	30	57
NIH	152	0	24	3	0	63	28	34
OTHER HHS	211	4	0	0	0	182	2	23
NSF	98	2	7	7	3	65	3	11
ALL OTHER FEDERAL	719	24	26	35	71	284	121	158
INSTITUTIONAL SUPPORT	3,764	259	415	139	342	1,167	828	614
OTHER OUTSIDE SUPPORT, TOTAL	783	229	55	69	65	138	25	202
ALL OTHER U.S.	434	130	46	64	4	82	8	100
FOREIGN	349	99	9	5	61	56	17	102
SELF-SUPPORT	13,123	756	193	380	1,117	3,111	4,215	3,351
MEN:								
TOTAL, ALL SOURCES	9,851	1,188	528	443	1,107	2,253	1,912	2,420
FEDERAL, TOTAL	640	45	31	37	52	247	93	135
DEPT OF DEFENSE	44	21	0	0	3	7	4	9
DEPT OF HHS, TOTAL	114	3	10	2	0	68	11	20
NIH	61	0	10	2	0	28	9	12
OTHER HHS	53	3	0	0	0	40	2	8
NSF	60	2	5	4	2	41	1	5
ALL OTHER FEDERAL	422	19	16	31	47	131	77	101
INSTITUTIONAL SUPPORT	2,128	227	306	96	207	559	359	374
OTHER OUTSIDE SUPPORT, TOTAL	574	215	40	45	49	78	7	140
ALL OTHER U.S.	297	121	33	40	3	42	2	56
FOREIGN	277	94	7	5	46	36	5	84
SELF-SUPPORT	6,509	701	151	265	799	1,369	1,453	1,771
WOMEN:								
TOTAL, ALL SOURCES	9,048	107	192	190	495	2,766	3,315	1,983
FEDERAL, TOTAL	589	6	26	8	26	356	66	101
DEPT OF DEFENSE	5	0	0	0	1	2	1	1
DEPT OF HHS, TOTAL	249	1	14	1	0	177	19	37
NIH	91	0	14	1	0	35	19	22
OTHER HHS	158	1	0	0	0	142	0	15
NSF	38	0	2	3	1	24	2	6
ALL OTHER FEDERAL	297	5	10	4	24	153	44	57
INSTITUTIONAL SUPPORT	1,636	32	109	43	135	608	469	240
OTHER OUTSIDE SUPPORT, TOTAL	209	14	15	24	16	60	18	62
ALL OTHER U.S.	137	9	13	24	1	40	6	44
FOREIGN	72	5	2	0	15	20	12	18
SELF-SUPPORT	6,614	55	42	115	318	1,742	2,762	1,580

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-13. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY HIGHEST DEGREE GRANTED AND SOURCE AND TYPE OF MAJOR SUPPORT: 1981

HIGHEST DEGREE GRANTED AND SOURCE OF MAJOR SUPPORT	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
ALL INSTITUTIONS:						
TOTAL, ALL SOURCES	253,428	20,718	17,929	53,174	55,999	105,608
FEDERAL, TOTAL	52,073	4,225	13,015	29,148	641	5,044
DEPT OF DEFENSE	5,657	186	81	3,280	0	2,110
DEPT OF HHS, TOTAL	18,349	1,031	10,691	6,049	116	462
NIH	11,327	727	4,855	5,440	74	231
OTHER HHS	7,022	304	5,836	609	42	231
NSF	9,154	1,262	145	7,586	61	100
ALL OTHER FEDERAL	18,913	1,746	2,098	12,233	464	2,372
INSTITUTIONAL SUPPORT	94,205	9,620	3,773	17,675	54,940	8,197
OTHER OUTSIDE SUPPORT, TOTAL	23,059	6,873	1,141	6,351	418	8,276
ALL OTHER U.S.	14,179	3,208	867	5,738	418	3,948
FOREIGN	8,880	3,665	274	613	0	4,328
SELF-SUPPORT	84,091	0	0	0	0	84,091
DOCTORATE-GRANTING:						
TOTAL, ALL SOURCES	234,529	20,236	17,414	51,994	53,758	91,127
FEDERAL, TOTAL	50,844	4,101	12,630	28,884	549	4,680
DEPT OF DEFENSE	5,608	178	81	3,263	0	2,086
DEPT OF HHS, TOTAL	17,986	1,030	10,400	5,982	116	458
NIH	11,175	727	4,768	5,377	74	229
OTHER HHS	6,811	303	5,632	605	42	229
NSF	9,056	1,234	135	7,562	58	67
ALL OTHER FEDERAL	18,194	1,659	2,014	12,077	375	2,069
INSTITUTIONAL SUPPORT	90,441	9,419	3,666	16,844	52,824	7,688
OTHER OUTSIDE SUPPORT, TOTAL	22,276	6,716	1,118	6,266	385	7,791
ALL OTHER U.S.	13,745	3,172	847	5,663	385	3,678
FOREIGN	8,531	3,544	271	603	0	4,113
SELF-SUPPORT	70,968	0	0	0	0	70,968
MASTER'S-GRANTING:						
TOTAL, ALL SOURCES	18,899	482	515	1,180	2,241	14,481
FEDERAL, TOTAL	1,229	124	385	264	92	364
DEPT OF DEFENSE	49	8	0	17	0	24
DEPT OF HHS, TOTAL	363	1	291	67	0	4
NIH	152	0	87	63	0	2
OTHER HHS	211	1	204	4	0	2
NSF	98	28	10	24	3	33
ALL OTHER FEDERAL	719	87	84	156	89	303
INSTITUTIONAL SUPPORT	3,764	201	107	831	2,116	509
OTHER OUTSIDE SUPPORT, TOTAL	783	157	23	85	33	485
ALL OTHER U.S.	434	36	20	75	33	270
FOREIGN	349	121	3	10	0	215
SELF-SUPPORT	13,123	0	0	0	0	13,123

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-14. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD AND TYPE OF MAJOR SUPPORT: 1981

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	253,428	20,718	17,929	53,174	55,999	105,608
ENGINEERING	46,661	4,110	1,000	14,563	8,416	18,572
AEROSPACE	1,449	66	64	590	218	511
AGRICULTURAL	677	34	13	403	42	185
BIOMEDICAL	862	63	80	248	95	376
CHEMICAL	5,143	671	159	2,083	956	1,274
CIVIL	7,320	587	168	2,150	1,168	3,247
ELECTRICAL	10,401	820	174	2,866	2,511	4,030
ENGINEERING SCIENCE	1,232	191	23	530	192	296
INDUSTRIAL	3,947	215	90	548	631	2,463
MECHANICAL	6,468	557	97	2,112	1,458	2,244
METALLURGICAL/MATERIALS	2,440	246	51	1,558	245	340
MINING	470	104	1	161	63	141
NUCLEAR	1,056	124	24	486	111	311
PETROLEUM	393	69	4	118	54	148
ENGINEERING, N.E.C.	4,803	363	52	710	672	3,006
PHYSICAL SCIENCES	23,354	1,851	505	8,577	10,250	2,171
ASTRONOMY	565	67	5	263	181	49
CHEMISTRY	13,735	1,106	362	4,797	6,436	1,034
PHYSICS	8,962	674	137	3,502	3,606	1,043
PHYSICAL SCIENCES, N.E.C.	92	4	1	15	27	45
ENVIRONMENTAL SCIENCES	10,880	822	234	3,432	2,607	3,785
ATMOSPHERIC SCIENCES	772	15	7	461	84	205
GEOSCIENCES	6,945	633	110	1,838	2,080	2,284
OCEANOGRAPHY	1,637	77	100	799	146	515
ENVIRONMENTAL SCIENCES, N.E.C.	1,526	97	17	334	297	781
MATHEMATICAL/COMPUTER SCIENCES	17,726	1,059	234	1,841	7,522	7,070
COMPUTER SCIENCE	7,737	380	102	1,117	1,821	4,317
MATHEMATICS AND APPLIED MATHEMATICS	8,460	583	113	460	5,065	2,239
STATISTICS	1,529	96	19	264	636	514
LIFE SCIENCES	72,536	5,381	11,540	16,405	12,478	26,732
AGRICULTURAL SCIENCES	10,048	599	208	4,686	812	3,743
BIOLOGICAL SCIENCES	37,138	3,471	4,502	9,971	9,472	9,722
ANATOMY	958	152	146	129	309	222
BIOCHEMISTRY	3,619	343	609	1,531	686	450
BIOLOGY	9,566	645	716	1,605	3,758	2,842
BIOMETRY/EPIDEMIOLOGY	1,009	89	355	81	52	432
BIOPHYSICS	487	75	111	136	38	127
BOTANY	2,992	168	57	1,261	837	669
CELL BIOLOGY	854	111	345	227	112	59
ECOLOGY	925	96	30	221	323	255
ENTOMOLOGY/PARASITOLOGY	1,456	130	36	803	168	319
GENETICS	858	128	166	252	119	193
MICROBIOLOGY	3,392	337	491	1,007	861	696
NUTRITION	3,158	242	119	1,125	268	1,404
PATHOLOGY	1,193	224	181	148	63	577
PHARMACOLOGY	1,891	288	599	423	244	337
PHYSIOLOGY	1,891	199	329	455	345	563
ZOOLOGY	2,268	121	77	440	1,174	456
BIOSCIENCES, N.E.C.	621	123	135	127	115	121
HEALTH SCIENCES	25,350	1,311	6,830	1,748	2,194	13,267
ANESTHESIOLOGY	16	1	0	0	0	15
CANCER/ONCOLOGY	44	0	0	0	0	44
CARDIOLOGY	30	0	0	5	0	25
DENTISTRY	1,017	94	103	17	159	644
ENDOCRINOLOGY	46	10	10	12	6	8
GASTROENTEROLOGY	3	2	0	1	0	0
HEMATOLOGY	9	0	2	1	1	5
NEUROLOGY	330	88	105	60	45	32
NURSING	7,329	102	3,635	110	266	3,216
OBSTETRICS/GYNECOLOGY	10	0	6	0	0	4
OPHTHALMOLOGY	19	2	4	7	4	2
OTORHINOLARYNGOLOGY	15	7	5	3	0	0
PEDIATRICS	119	15	68	0	1	35
PHARMACEUTICAL SCIENCES	1,693	183	90	441	581	398
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,434	250	1,573	234	75	2,302
PSYCHIATRY	57	17	8	14	0	18
PULMONARY DISEASE	9	9	0	0	0	0
RADIOLOGY	235	51	57	26	5	96
SPEECH PATHOLOGY/AUDIOLOGY	5,474	196	673	286	742	3,577
SURGERY	69	52	5	8	0	4
VETERINARY SCIENCES	685	61	38	270	127	189
CLINICAL MEDICINE, N.E.C.	296	94	16	43	44	99
HEALTH RELATED, N.E.C.	3,411	77	432	210	138	2,554
PSYCHOLOGY	26,697	1,342	1,922	2,883	4,995	15,555
SOCIAL SCIENCES	55,574	6,153	2,494	5,473	9,731	31,723
AGRICULTURAL ECONOMICS	2,037	174	24	949	122	768
ANTHROPOLOGY	4,324	639	100	304	867	2,414
ECONOMICS (EXCEPT AGRICULTURAL)	9,318	943	211	1,162	2,679	4,323
GEOGRAPHY	2,289	144	49	249	899	948
HISTORY AND PHILOSOPHY OF SCIENCE	217	53	4	16	68	76
LINGUISTICS	2,181	300	65	181	690	945
POLITICAL SCIENCE	14,427	2,246	315	931	2,045	8,890
SOCIOLOGY	5,582	637	363	779	1,585	2,218
SOCIOLOGY/ANTHROPOLOGY	577	43	2	137	197	198
SOCIAL SCIENCES, N.E.C.	14,622	974	1,361	765	579	10,943

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-15. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD AND TYPE OF MAJOR SUPPORT: 1981

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	234,529	20,236	17,414	51,994	53,758	91,127
ENGINEERING	45,366	4,035	985	14,476	8,288	17,582
AEROSPACE	1,446	66	64	590	218	508
AGRICULTURAL	677	34	13	403	42	185
BIOMEDICAL	848	63	80	248	94	363
CHEMICAL	5,083	661	159	2,083	956	1,224
CIVIL	7,093	587	168	2,146	1,160	3,032
ELECTRICAL	10,145	820	174	2,835	2,446	3,870
ENGINEERING SCIENCE	1,216	191	23	528	192	282
INDUSTRIAL	3,737	215	90	542	624	2,266
MECHANICAL	6,383	554	97	2,108	1,447	2,177
METALLURGICAL/MATERIALS	2,422	241	51	1,553	242	335
MINING	453	101	1	161	59	131
NUCLEAR	1,056	124	24	486	111	311
PETROLEUM	390	69	4	118	53	146
ENGINEERING, N.E.C.	4,417	309	37	675	644	2,752
PHYSICAL SCIENCES	22,634	1,810	481	8,494	9,918	1,931
ASTRONOMY	565	67	5	263	181	49
CHEMISTRY	13,170	1,068	338	4,730	6,180	854
PHYSICS	8,840	671	137	3,486	3,539	1,007
PHYSICAL SCIENCES, N.E.C.	59	4	1	15	18	21
ENVIRONMENTAL SCIENCES	10,247	807	224	3,369	2,495	3,352
ATMOSPHERIC SCIENCES	766	15	7	460	83	201
GEOSCIENCES	6,761	626	102	1,820	2,017	2,196
OCEANOGRAPHY	1,604	77	100	799	129	499
ENVIRONMENTAL SCIENCES, N.E.C.	1,116	89	15	290	266	456
MATHEMATICAL/COMPUTER SCIENCES	16,124	1,029	224	1,785	7,278	5,808
COMPUTER SCIENCE	6,589	356	102	1,087	1,771	3,273
MATHEMATICS AND APPLIED MATHEMATICS	8,010	577	103	438	4,871	2,021
STATISTICS	1,525	96	19	260	636	514
LIFE SCIENCES	67,517	5,245	11,254	15,875	11,720	23,323
AGRICULTURAL SCIENCES	9,623	583	204	4,676	793	3,367
BIOLOGICAL SCIENCES	34,854	3,404	4,464	9,644	8,874	8,468
ANATOMY	958	152	146	129	309	222
BIOCHEMISTRY	3,600	343	609	1,531	686	431
BIOLOGY	7,784	579	680	1,314	3,204	2,007
BIOMETRY/EPIDEMIOLOGY	1,009	89	355	81	52	432
BIOPHYSICS	487	75	111	136	38	127
BOTANY	2,979	168	57	1,261	836	657
CELL BIOLOGY	854	111	345	227	112	59
ECOLOGY	917	96	30	221	319	251
ENTOMOLOGY/PARASITOLOGY	1,456	130	36	803	168	319
GENETICS	811	128	166	252	119	146
MICROBIOLOGY	3,341	337	490	1,005	850	659
NUTRITION	3,044	241	119	1,098	265	1,341
PATHOLOGY	998	224	181	148	62	383
PHARMACOLOGY	1,890	288	599	423	243	337
PHYSIOLOGY	1,891	199	329	455	345	563
ZOOLOGY	2,247	121	76	438	1,157	455
BIOSCIENCES, N.E.C.	568	123	135	122	109	79
HEALTH SCIENCES	23,040	1,258	6,586	1,655	2,053	11,488
ANESTHESIOLOGY	16	1	0	0	0	15
CANCER/ONCOLOGY	44	0	0	0	0	44
CARDIOLOGY	5	0	0	5	0	0
DENTISTRY	1,017	94	103	17	159	644
ENDOCRINOLOGY	46	10	10	12	6	8
GASTROENTEROLOGY	3	2	0	1	0	0
HEMATOLOGY	9	0	2	1	1	5
NEUROLOGY	316	88	105	54	45	24
NURSING	6,927	98	3,489	107	260	2,973
OBSTETRICS/GYNECOLOGY	10	0	6	0	0	4
OPHTHALMOLOGY	19	2	4	7	4	2
OTORHINOLARYNGOLOGY	15	7	5	3	0	0
PEDIATRICS	119	15	68	0	1	35
PHARMACEUTICAL SCIENCES	1,677	183	90	441	581	382
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,404	250	1,573	232	72	2,277
PSYCHIATRY	57	17	8	14	0	18
PULMONARY DISEASE	9	9	0	0	0	0
RADIOLOGY	235	51	57	26	5	96
SPEECH PATHOLOGY/AUDIOLOGY	4,511	152	631	249	658	2,821
SURGERY	69	52	5	8	0	4
VETERINARY SCIENCES	663	61	38	259	127	178
CLINICAL MEDICINE, N.E.C.	234	92	16	36	39	51
HEALTH RELATED, N.E.C.	2,635	74	376	183	95	1,907
PSYCHOLOGY	21,470	1,310	1,860	2,657	4,587	11,056
SOCIAL SCIENCES	51,171	6,000	2,386	5,238	9,472	28,075
AGRICULTURAL ECONOMICS	2,014	174	24	936	118	762
ANTHROPOLOGY	4,245	639	100	304	843	2,359
ECONOMICS (EXCEPT AGRICULTURAL)	9,020	914	211	1,131	2,662	4,102
GEOGRAPHY	2,101	143	44	232	856	826
HISTORY AND PHILOSOPHY OF SCIENCE	217	53	4	16	68	76
LINGUISTICS	2,167	300	65	180	690	932
POLITICAL SCIENCE	12,813	2,185	293	848	1,969	7,518
SOCIOLOGY	5,299	632	361	737	1,545	2,024
SOCIOLOGY/ANTHROPOLOGY	526	43	2	125	192	164
SOCIAL SCIENCES, N.E.C.	12,769	917	1,282	729	529	9,312

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-16. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD AND TYPE OF MAJOR SUPPORT: 1981

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	18,899	482	515	1,180	2,241	14,481
ENGINEERING	1,295	75	15	87	128	990
AEROSPACE	3	0	0	0	0	3
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	14	0	0	0	1	13
CHEMICAL	60	10	0	0	0	50
CIVIL	227	0	0	4	8	215
ELECTRICAL	256	0	0	31	65	160
ENGINEERING SCIENCE	16	0	0	2	0	14
INDUSTRIAL	210	0	0	6	7	197
MECHANICAL	85	3	0	4	11	67
METALLURGICAL/MATERIALS	18	5	0	5	3	5
MINING	17	3	0	0	4	10
NUCLEAR	0	0	0	0	0	0
PETROLEUM	3	0	0	0	1	2
ENGINEERING, N.E.C.	386	54	15	35	28	254
PHYSICAL SCIENCES	720	41	24	83	332	240
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	565	38	24	67	256	180
PHYSICS	122	3	0	16	67	36
PHYSICAL SCIENCES, N.E.C.	33	0	0	0	9	24
ENVIRONMENTAL SCIENCES	633	15	10	63	112	433
ATMOSPHERIC SCIENCES	6	0	0	1	1	4
GEOSCIENCES	184	7	8	18	63	88
OCEANOGRAPHY	33	0	0	0	17	16
ENVIRONMENTAL SCIENCES, N.E.C.	410	8	2	44	31	325
MATHEMATICAL/COMPUTER SCIENCES	1,602	30	10	56	244	1,262
COMPUTER SCIENCE	1,148	24	0	30	50	1,044
MATHEMATICS AND APPLIED MATHEMATICS	450	6	10	22	194	218
STATISTICS	4	0	0	4	0	0
LIFE SCIENCES	5,019	136	286	430	758	3,409
AGRICULTURAL SCIENCES	425	16	4	10	19	376
BIOLOGICAL SCIENCES	2,284	67	38	327	598	1,254
ANATOMY	0	0	0	0	0	0
BIOCHEMISTRY	19	0	0	0	0	19
BIOLOGY	1,782	66	36	291	554	835
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0
BOTANY	13	0	0	0	1	12
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	8	0	0	0	4	4
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0
GENETICS	47	0	0	0	0	47
MICROBIOLOGY	51	0	1	2	11	37
NUTRITION	94	1	0	27	3	63
PATHOLOGY	195	0	0	0	1	194
PHARMACOLOGY	1	0	0	0	1	0
PHYSIOLOGY	0	0	0	0	0	0
ZOOLOGY	21	0	1	2	17	1
BIOSCIENCES, N.E.C.	53	0	0	5	6	42
HEALTH SCIENCES	2,310	53	244	93	141	1,779
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	25	0	0	0	0	25
DENTISTRY	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	14	0	0	6	0	8
NURSING	402	4	144	3	6	243
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	16	0	0	0	0	16
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	30	0	0	2	3	25
PSYCHIATRY	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	963	44	42	37	84	756
SURGERY	0	0	0	0	0	0
VETERINARY SCIENCES	22	0	0	11	0	11
CLINICAL MEDICINE, N.E.C.	62	2	0	7	5	48
HEALTH RELATED, N.E.C.	776	3	56	27	43	647
PSYCHOLOGY	5,227	32	62	226	408	4,499
SOCIAL SCIENCES	4,403	153	108	235	259	3,648
AGRICULTURAL ECONOMICS	23	0	0	13	4	6
ANTHROPOLOGY	79	0	0	0	24	55
ECONOMICS (EXCEPT AGRICULTURAL)	298	29	0	31	17	221
GEOGRAPHY	188	1	5	17	43	122
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	14	0	0	1	0	13
POLITICAL SCIENCE	1,614	61	22	83	76	1,372
SOCIOLOGY	283	5	2	42	40	194
SOCIOLOGY/ANTHROPOLOGY	51	0	0	12	5	34
SOCIAL SCIENCES, N.E.C.	1,853	57	79	36	50	1,631

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-17. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD AND RACIAL/ETHNIC BACKGROUND: 1981

FIELD	TOTAL	U.S. CITIZENS					FOREIGN, OTHER, OR UNKNOWN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	
TOTAL, ALL FIELDS	253,428	6,288	515	4,900	4,556	140,499	96,670
ENGINEERING	46,661	431	67	1,108	478	18,404	26,173
AEROSPACE	1,449	15	0	26	16	494	898
AGRICULTURAL	677	2	14	11	7	306	337
BIOMEDICAL	862	4	1	15	8	499	335
CHEMICAL	5,143	44	6	134	41	2,033	2,885
CIVIL	7,320	56	2	195	90	3,023	3,954
ELECTRICAL	10,401	111	29	275	112	3,553	6,321
ENGINEERING SCIENCE	1,232	10	0	13	6	589	614
INDUSTRIAL	3,947	65	2	59	65	1,545	2,211
MECHANICAL	6,468	36	3	114	58	2,104	4,153
METALLURGICAL/MATERIALS	2,440	15	1	76	18	1,053	1,277
MINING	470	3	0	10	3	260	194
NUCLEAR	1,056	11	3	26	6	559	451
PETROLEUM	393	2	0	10	3	151	227
ENGINEERING, N.E.C.	4,803	57	6	144	45	2,235	2,316
PHYSICAL SCIENCES	23,354	325	15	499	326	13,399	8,790
ASTRONOMY	565	3	1	3	4	403	151
CHEMISTRY	13,735	237	11	346	218	8,088	4,835
PHYSICS	8,962	84	3	147	103	4,856	3,769
PHYSICAL SCIENCES, N.E.C.	92	1	0	3	1	52	35
ENVIRONMENTAL SCIENCES	10,880	72	11	92	134	6,961	3,610
ATMOSPHERIC SCIENCES	772	3	0	8	20	536	205
GEOSCIENCES	6,945	32	7	59	51	4,471	2,325
OCEANOGRAPHY	1,637	6	1	15	53	1,075	487
ENVIRONMENTAL SCIENCES, N.E.C.	1,526	31	3	10	10	879	593
MATHEMATICAL/COMPUTER SCIENCES	17,726	231	8	508	215	8,182	8,582
COMPUTER SCIENCE	7,737	93	3	266	54	3,434	3,887
MATHEMATICS AND APPLIED MATHEMATICS	8,460	130	3	219	149	4,076	3,883
STATISTICS	1,529	8	2	23	12	672	812
LIFE SCIENCES	72,536	1,498	130	1,383	1,030	47,170	21,325
AGRICULTURAL SCIENCES	10,048	91	8	97	134	6,225	3,493
BIOLOGICAL SCIENCES	37,138	637	32	785	496	24,823	10,365
ANATOMY	958	16	2	21	8	691	220
BIOCHEMISTRY	3,619	50	0	115	34	2,517	903
BIOLOGY	9,566	219	13	144	264	6,345	2,581
BIOMETRY/EPIDEMIOLOGY	1,009	29	3	23	3	439	512
BIOPHYSICS	487	6	0	9	3	251	218
BOTANY	2,992	26	2	42	23	2,007	892
CELL BIOLOGY	854	6	0	21	14	553	260
ECOLOGY	925	2	0	7	6	697	213
ENTOMOLOGY/PARASITOLOGY	1,456	13	0	32	10	1,075	326
GENETICS	858	17	0	31	10	585	215
MICROBIOLOGY	3,392	60	3	94	28	2,205	1,002
NUTRITION	3,158	52	2	58	31	1,974	1,041
PATHOLOGY	1,193	19	2	30	8	675	459
PHARMACOLOGY	1,891	31	1	61	16	1,359	423
PHYSIOLOGY	1,891	29	0	40	20	1,309	493
ZOOLOGY	2,268	47	4	38	9	1,728	442
BIOSCIENCES, N.E.C.	621	15	0	19	9	413	165
HEALTH SCIENCES	25,350	770	90	501	400	16,122	7,467
ANESTHESIOLOGY	16	0	0	1	0	13	2
CANCER/ONCOLOGY	44	0	0	0	0	0	44
CARDIOLOGY	30	0	0	0	0	26	4
DENTISTRY	1,017	10	1	19	14	597	376
ENDOCRINOLOGY	46	3	0	2	0	31	10
GASTROENTEROLOGY	3	0	0	0	0	0	3
HEMATOLOGY	9	0	0	0	0	8	1
NEUROLOGY	330	1	0	7	4	253	65
NURSING	7,329	170	9	104	64	4,713	2,269
OBSTETRICS/GYNECOLOGY	10	0	0	2	0	4	4
OPHTHALMOLOGY	19	0	0	1	0	10	8
OTORHINOLARYNGOLOGY	15	0	0	0	0	11	4
PEDIATRICS	119	8	0	1	1	71	38
PHARMACEUTICAL SCIENCES	1,693	18	0	42	27	878	728
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,434	191	49	201	101	2,741	1,151
PSYCHIATRY	57	3	0	2	1	50	1
PULMONARY DISEASE	9	1	0	0	0	6	2
RADIOLOGY	235	5	0	12	2	146	70
SPEECH PATHOLOGY/AUDIOLOGY	5,474	220	12	51	95	3,884	1,212
SURGERY	69	0	0	1	0	43	25
VETERINARY SCIENCES	685	23	9	12	12	402	236
CLINICAL MEDICINE, N.E.C.	296	11	1	12	2	178	92
HEALTH RELATED, N.E.C.	3,411	106	18	31	77	2,057	1,122
PSYCHOLOGY	26,697	978	48	328	955	15,884	8,504
SOCIAL SCIENCES	55,574	2,753	236	982	1,418	30,499	19,686
AGRICULTURAL ECONOMICS	2,037	32	2	19	26	1,100	858
ANTHROPOLOGY	4,324	63	22	41	72	2,844	1,282
ECONOMICS (EXCEPT AGRICULTURAL)	9,318	200	9	130	139	4,020	4,820
GEOGRAPHY	2,289	25	10	17	21	1,524	692
HISTORY AND PHILOSOPHY OF SCIENCE	217	3	1	2	1	152	58
LINGUISTICS	2,181	28	7	27	25	1,053	1,041
POLITICAL SCIENCE	14,427	919	39	196	363	6,974	5,936
SOCIOLOGY	5,582	320	35	104	186	3,089	1,848
SOCIOLOGY/ANTHROPOLOGY	577	48	0	8	11	344	166
SOCIAL SCIENCES, N.E.C.	14,622	1,115	111	438	574	9,399	2,985

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-18. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD AND RACIAL/ETHNIC BACKGROUND: 1981

FIELD	TOTAL	U.S. CITIZENS					FOREIGN, OTHER, OR UNKNOWN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	
TOTAL, ALL FIELDS	234,529	5,351	470	4,568	4,181	132,101	87,858
ENGINEERING	45,366	406	67	1,058	470	18,096	25,269
AEROSPACE	1,446	15	0	26	16	494	895
AGRICULTURAL	677	2	14	11	7	306	337
BIOMEDICAL	848	4	1	15	8	499	321
CHEMICAL	5,083	44	6	129	41	2,014	2,849
CIVIL	7,093	53	2	173	86	2,953	3,826
ELECTRICAL	10,145	104	29	270	111	3,537	6,094
ENGINEERING SCIENCE	1,216	10	0	13	6	582	605
INDUSTRIAL	3,737	57	2	50	64	1,489	2,075
MECHANICAL	6,383	35	3	112	58	2,095	4,080
METALLURGICAL/MATERIALS	2,422	15	1	75	18	1,042	1,271
MINING	453	3	0	10	3	248	189
NUCLEAR	1,056	11	2	26	6	559	451
PETROLEUM	390	2	0	10	3	151	224
ENGINEERING, N.E.C.	4,417	51	6	138	43	2,127	2,052
PHYSICAL SCIENCES	22,634	271	15	466	319	13,114	8,449
ASTRONOMY	565	3	1	3	4	403	151
CHEMISTRY	13,170	190	11	316	212	7,878	4,563
PHYSICS	8,840	78	3	145	102	4,799	3,713
PHYSICAL SCIENCES, N.E.C.	59	0	0	2	1	34	22
ENVIRONMENTAL SCIENCES	10,247	54	10	91	124	6,637	3,331
ATMOSPHERIC SCIENCES	766	3	0	8	20	530	205
GEOSCIENCES	6,761	31	7	59	47	4,365	2,252
OCEANOGRAPHY	1,604	6	1	15	53	1,074	455
ENVIRONMENTAL SCIENCES, N.E.C.	1,116	14	2	9	4	668	419
MATHEMATICAL/COMPUTER SCIENCES	16,124	179	6	428	195	7,722	7,594
COMPUTER SCIENCE	6,589	60	2	199	37	3,161	3,130
MATHEMATICS AND APPLIED MATHEMATICS	8,010	111	2	206	146	3,891	3,654
STATISTICS	1,525	8	2	23	12	670	810
LIFE SCIENCES	67,517	1,263	121	1,316	922	44,764	19,131
AGRICULTURAL SCIENCES	9,623	87	7	97	132	6,057	3,243
BIOLOGICAL SCIENCES	34,854	500	29	752	459	23,810	9,304
ANATOMY	958	16	2	21	8	691	220
BIOCHEMISTRY	3,600	50	0	115	34	2,517	884
BIOLOGY	7,784	92	10	118	234	5,522	1,808
BIOMETRY/EPIDEMIOLOGY	1,009	29	3	23	3	439	512
BIOPHYSICS	487	6	0	9	3	251	218
BOTANY	2,979	26	2	42	23	1,994	892
CELL BIOLOGY	854	6	0	21	14	553	260
ECOLOGY	917	2	0	7	6	691	211
ENTOMOLOGY/PARASITOLOGY	1,456	13	0	32	10	1,075	326
GENETICS	811	16	0	31	8	543	213
MICROBIOLOGY	3,341	60	3	88	26	2,176	988
NUTRITION	3,064	44	2	57	30	1,939	992
PATHOLOGY	998	19	2	30	8	675	264
PHARMACOLOGY	1,890	31	1	61	16	1,358	423
PHYSIOLOGY	1,891	29	0	40	20	1,309	493
ZOOLOGY	2,247	46	4	38	9	1,710	440
BIOSCIENCES, N.E.C.	568	15	0	19	7	367	160
HEALTH SCIENCES	23,040	676	85	467	331	14,897	6,584
ANESTHESIOLOGY	16	0	0	1	0	13	2
CANCER/ONCOLOGY	44	0	0	0	0	0	44
CARDIOLOGY	5	0	0	0	0	1	4
DENTISTRY	1,017	10	1	19	14	597	376
ENDOCRINOLOGY	46	3	0	2	0	31	10
GASTROENTEROLOGY	3	0	0	0	0	0	3
HEMATOLOGY	9	0	0	0	0	8	1
NEUROLOGY	316	1	0	7	4	240	64
NURSING	6,927	147	9	86	50	4,552	2,083
OBSTETRICS/GYNECOLOGY	10	0	0	2	0	4	4
OPHTHALMOLOGY	19	0	0	1	0	10	8
OTORHINOLARYNGOLOGY	15	0	0	0	0	11	4
PEDIATRICS	119	8	0	1	1	71	38
PHARMACEUTICAL SCIENCES	1,677	18	0	42	27	877	713
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,404	191	49	201	101	2,735	1,127
PSYCHIATRY	57	3	0	2	1	50	1
PULMONARY DISEASE	9	1	0	0	0	6	2
RADIOLOGY	235	5	0	12	2	146	70
SPEECH PATHOLOGY/AUDIOLOGY	4,511	182	11	43	60	3,314	901
SURGERY	69	0	0	1	0	43	25
VETERINARY SCIENCES	663	16	0	12	9	401	225
CLINICAL MEDICINE, N.E.C.	234	6	0	4	1	147	76
HEALTH RELATED, N.E.C.	2,635	85	15	31	61	1,640	803
PSYCHOLOGY	21,470	784	33	291	875	12,941	6,547
SOCIAL SCIENCES	51,171	2,394	218	918	1,276	28,[illegible]	17,537
AGRICULTURAL ECONOMICS	2,014	26	2	19	26	1,0[illegible]	845
ANTHROPOLOGY	4,245	62	21	41	70	2,81[illegible]	1,241
ECONOMICS (EXCEPT AGRICULTURAL)	9,020	186	9	126	136	3,973	4,590
GEOGRAPHY	2,101	20	9	13	20	1,397	642
HISTORY AND PHILOSOPHY OF SCIENCE	217	3	1	2	1	152	58
LINGUISTICS	2,167	28	7	27	24	1,043	1,038
POLITICAL SCIENCE	12,813	789	36	176	323	6,489	5,000
SOCIOLOGY	5,299	258	35	99	178	2,977	1,752
SOCIOLOGY/ANTHROPOLOGY	526	48	0	8	11	330	129
SOCIAL SCIENCES, N.E.C.	12,769	974	98	407	487	8,561	2,242

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-19. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD AND RACIAL/ETHNIC BACKGROUND: 1981

FIELD	TOTAL	U.S. CITIZENS					FOREIGN, OTHER, OR UNKNOWN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	
TOTAL, ALL FIELDS	18,899	937	45	332	375	8,398	8,812
ENGINEERING	1,295	25	0	50	8	308	904
AEROSPACE	3	0	0	0	0	0	3
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	14	0	0	0	0	0	14
CHEMICAL	60	0	0	5	0	19	36
CIVIL	227	3	0	22	4	70	128
ELECTRICAL	256	7	0	5	1	16	227
ENGINEERING SCIENCE	16	0	0	0	0	7	9
INDUSTRIAL	210	8	0	9	1	56	136
MECHANICAL	85	1	0	2	0	9	73
METALLURGICAL/MATERIALS	18	0	0	1	0	11	6
MINING	17	0	0	0	0	12	5
NUCLEAR	0	0	0	0	0	0	0
PETROLEUM	3	0	0	0	0	0	3
ENGINEERING, N.E.C.	386	6	0	6	2	108	264
PHYSICAL SCIENCES	720	54	0	33	7	285	341
ASTRONOMY	0	0	0	0	0	0	0
CHEMISTRY	565	47	0	30	6	210	272
PHYSICS	122	6	0	2	1	57	56
PHYSICAL SCIENCES, N.E.C.	33	1	0	1	0	18	13
ENVIRONMENTAL SCIENCES	633	18	0	1	10	324	279
ATMOSPHERIC SCIENCES	6	0	0	0	0	6	0
GEOSCIENCES	184	1	0	0	4	106	73
OCEANOGRAPHY	33	0	0	0	0	1	32
ENVIRONMENTAL SCIENCES, N.E.C.	410	17	1	1	6	211	174
MATHEMATICAL/COMPUTER SCIENCES	1,602	52	2	80	20	460	988
COMPUTER SCIENCE	1,148	33	1	67	17	273	757
MATHEMATICS AND APPLIED MATHEMATICS	450	19	1	13	3	185	229
STATISTICS	4	0	0	0	0	2	2
LIFE SCIENCES	5,019	235	9	67	108	2,406	2,194
AGRICULTURAL SCIENCES	425	4	1	0	2	168	250
BIOLOGICAL SCIENCES	2,284	137	3	33	37	1,013	1,061
ANATOMY	0	0	0	0	0	0	0
BIOCHEMISTRY	19	0	0	0	0	0	19
BIOLOGY	1,782	127	3	26	30	823	773
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0
BOTANY	13	0	0	0	0	13	0
CELL BIOLOGY	0	0	0	0	0	0	0
ECOLOGY	8	0	0	0	0	6	2
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0
GENETICS	47	1	0	0	2	42	2
MICROBIOLOGY	51	0	0	6	2	29	14
NUTRITION	94	8	0	1	1	35	49
PATHOLOGY	195	0	0	0	0	0	195
PHARMACOLOGY	1	0	0	0	0	1	0
PHYSIOLOGY	0	0	0	0	0	0	0
ZOOLOGY	21	1	0	0	0	18	2
BIOSCIENCES, N.E.C.	53	0	0	0	2	46	5
HEALTH SCIENCES	2,310	94	5	34	69	1,225	883
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0
CARDIOLOGY	25	0	0	0	0	25	0
DENTISTRY	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	14	0	0	0	0	13	1
NURSING	402	23	0	18	14	161	186
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	16	0	0	0	0	1	15
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	30	0	0	0	0	6	24
PSYCHIATRY	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	963	38	1	8	35	570	311
SURGERY	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	7	0	0	3	1	11
CLINICAL MEDICINE, N.E.C.	62	5	1	8	1	31	16
HEALTH RELATED, N.E.C.	776	21	3	0	16	417	319
PSYCHOLOGY	5,227	194	15	37	80	2,944	1,957
SOCIAL SCIENCES	4,403	359	18	64	142	1,671	2,149
AGRICULTURAL ECONOMICS	23	6	0	0	0	4	13
ANTHROPOLOGY	79	1	1	0	2	34	41
ECONOMICS (EXCEPT AGRICULTURAL)	298	14	0	4	3	47	230
GEOGRAPHY	188	5	1	4	1	127	50
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0
LINGUISTICS	14	0	0	0	1	10	3
POLITICAL SCIENCE	1,614	130	3	20	40	485	936
SOCIOLOGY	283	62	0	5	8	112	96
SOCIOLOGY/ANTHROPOLOGY	51	0	0	0	0	14	37
SOCIAL SCIENCES, N.E.C.	1,853	141	13	31	87	838	743

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-20. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, SEX, AND TYPE OF CONTROL: 1981

FIELD	TOTAL	SEX		TYPE OF CONTROL	
		MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	138,606	84,351	54,255	81,413	57,193
ENGINEERING	36,316	32,733	3,583	17,042	19,274
AEROSPACE	400	384	16	269	131
AGRICULTURAL	135	134	1	135	0
BIOMEDICAL	185	155	30	86	99
CHEMICAL	1,550	1,277	273	919	631
CIVIL	5,144	4,699	445	3,033	2,111
ELECTRICAL	9,759	9,198	561	4,079	5,680
ENGINEERING SCIENCE	783	680	103	513	270
INDUSTRIAL	8,132	6,866	1,266	1,751	6,381
MECHANICAL	4,347	4,051	296	2,357	1,990
METALLURGICAL/MATERIALS	666	563	103	293	373
MINING	118	110	8	115	3
NUCLEAR	265	252	13	184	81
PETROLEUM	128	110	18	37	91
ENGINEERING, N.E.C.	4,704	4,254	450	3,271	1,433
PHYSICAL SCIENCES	3,997	3,005	992	2,552	1,445
ASTRONOMY	32	24	8	31	1
CHEMISTRY	2,645	1,849	796	1,569	1,076
PHYSICS	1,222	1,080	142	854	368
PHYSICAL SCIENCES, N.E.C.	98	52	46	98	0
ENVIRONMENTAL SCIENCES	3,219	2,374	845	2,876	343
ATMOSPHERIC SCIENCES	142	124	18	131	11
GEOSCIENCES	1,746	1,326	420	1,521	225
OCEANOGRAPHY	460	330	130	444	16
ENVIRONMENTAL SCIENCES, N.E.C.	871	594	277	780	91
MATHEMATICAL/COMPUTER SCIENCES	14,536	10,178	4,358	7,928	6,608
COMPUTER SCIENCE	9,178	6,669	2,509	4,434	4,744
MATHEMATICS AND APPLIED MATHEMATICS	4,923	3,204	1,719	3,213	1,710
STATISTICS	435	305	130	281	154
LIFE SCIENCES	30,945	10,638	20,307	21,423	9,522
AGRICULTURAL SCIENCES	2,023	1,631	392	2,010	13
BIOLOGICAL SCIENCES	9,282	4,718	4,564	6,452	2,830
ANATOMY	82	48	34	50	32
BIOCHEMISTRY	278	171	107	121	157
BIOLOGY	4,810	2,661	2 149	3,295	1,515
BIOMETRY/EPIDEMIOLOGY	198	91	107	105	93
BIOPHYSICS	13	7	6	13	0
BOTANY	442	274	168	408	34
CELL BIOLOGY	17	9	8	12	5
ECOLOGY	131	85	46	92	39
ENTOMOLOGY/PARASITOLOGY	198	157	41	196	2
GENETICS	64	19	45	28	36
MICROBIOLOGY	491	246	245	317	174
NUTRITION	1,147	174	973	915	232
PATHOLOGY	475	199	276	241	234
PHARMACOLOGY	107	61	46	57	50
PHYSIOLOGY	207	141	66	152	55
ZOOLOGY	374	230	144	333	41
BIOSCIENCES, N.E.C.	248	145	103	117	131
HEALTH SCIENCES	19,640	4,289	15,351	12,961	6,679
ANESTHESIOLOGY	4	0	4	0	4
CANCER/ONCOLOGY	2	2	0	2	0
CARDIOLOGY	8	4	4	0	8
DENTISTRY	280	172	108	184	96
ENDOCRINOLOGY	5	4	1	5	0
GASTROENTEROLOGY	1	0	1	0	1
HEMATOLOGY	0	0	0	0	0
NEUROLOGY	3	2	1	3	0
NURSING	8,505	387	8,118	5,869	2,636
OBSTETRICS/GYNECOLOGY	3	1	2	2	1
OPHTHALMOLOGY	3	1	2	3	0
OTORHINOLARYNGOLOGY	0	0	0	0	0
PEDIATRICS	2	1	1	1	1
PHARMACEUTICAL SCIENCES	923	660	263	251	672
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,726	1,250	1,476	1,384	1,342
PSYCHIATRY	49	30	19	15	34
PULMONARY DISEASE	0	0	0	0	0
RADIOLOGY	40	29	11	34	6
SPEECH PATHOLOGY/AUDIOLOGY	3,222	363	2,859	2,805	417
SURGERY	6	3	3	0	6
VETERINARY SCIENCES	242	143	99	241	1
CLINICAL MEDICINE, N.E.C.	442	150	292	274	168
HEALTH RELATED, N.E.C.	3,174	1,087	2,087	1,888	1,286
PSYCHOLOGY	14,059	5,862	8,197	7,482	6,577
SOCIAL SCIENCES	35,534	19,561	15,973	22,110	13,424
AGRICULTURAL ECONOMICS	221	189	32	219	2
ANTHROPOLOGY	1,791	803	988	1,335	456
ECONOMICS (EXCEPT AGRICULTURAL)	3,953	2,819	1,134	2,106	1,847
GEOGRAPHY	951	653	298	918	33
HISTORY AND PHILOSOPHY OF SCIENCE	31	17	14	19	12
LINGUISTICS	854	337	517	530	324
POLITICAL SCIENCE	16,695	9,845	6,850	9,548	7,147
SOCIOLOGY	2,536	1,153	1,383	1,738	798
SOCIOLOGY/ANTHROPOLOGY	479	221	258	241	238
SOCIAL SCIENCES, N.E.C.	8,023	3,524	4,499	5,456	2,567

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-21. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, SEX, AND TYPE OF CONTROL: 1981

FIELD	TOTAL	SEX		TYPE OF CONTROL	
		MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	105,674	66,460	39,214	59,416	46,258
ENGINEERING	31,620	28,489	3,131	14,239	17,381
AEROSPACE	396	380	16	269	127
AGRICULTURAL	135	134	1	135	0
BIOMEDICAL	154	130	24	65	89
CHEMICAL	1,396	1,147	249	831	565
CIVIL	4,401	4,015	386	2,404	1,997
ELECTRICAL	8,760	8,257	503	3,588	5,172
ENGINEERING SCIENCE	587	497	90	512	75
INDUSTRIAL	7,504	6,329	1,175	1,503	6,001
MECHANICAL	3,727	3,459	268	2,087	1,640
METALLURGICAL/MATERIALS	606	514	92	283	323
MINING	117	109	8	114	3
NUCLEAR	265	252	13	184	81
PETROLEUM	128	110	18	37	91
ENGINEERING, N.E.C.	3,444	3,156	288	2,227	1,217
PHYSICAL SCIENCES	3,174	2,432	742	1,953	1,221
ASTRONOMY	32	24	8	31	1
CHEMISTRY	2,083	1,474	609	1,202	881
PHYSICS	1,043	927	116	704	339
PHYSICAL SCIENCES, N.E.C.	16	7	9	16	0
ENVIRONMENTAL SCIENCES	2,396	1,773	623	2,110	286
ATMOSPHERIC SCIENCES	139	121	18	128	11
GEOSCIENCES	1,400	1,060	340	1,175	225
OCEANOGRAPHY	344	248	96	328	16
ENVIRONMENTAL SCIENCES, N.E.C.	513	344	169	479	34
MATHEMATICAL/COMPUTER SCIENCES	10,936	7,815	3,121	5,482	5,454
COMPUTER SCIENCE	6,963	5,125	1,838	3,182	3,781
MATHEMATICS AND APPLIED MATHEMATICS	3,663	2,477	1,186	2,059	1,604
STATISTICS	310	213	97	241	69
LIFE SCIENCES	23,689	8,142	15,547	16,032	7,657
AGRICULTURAL SCIENCES	1,709	1,370	339	1,696	13
BIOLOGICAL SCIENCES	6,438	3,264	3,174	4,284	2,154
ANATOMY	82	48	34	50	32
BIOCHEMISTRY	258	161	97	121	137
BIOLOGY	2,492	1,411	1,081	1,372	1,120
BIOMETRY/EPIDEMIOLOGY	198	91	107	105	93
BIOPHYSICS	13	7	6	13	0
BOTANY	433	269	164	406	27
CELL BIOLOGY	17	9	8	12	5
ECOLOGY	86	67	19	86	0
ENTOMOLOGY/PARASITOLOGY	198	157	41	196	2
GENETICS	61	19	42	28	33
MICROBIOLOGY	356	174	182	254	102
NUTRITION	1,007	169	838	814	193
PATHOLOGY	432	176	256	214	218
PHARMACOLOGY	97	58	39	57	40
PHYSIOLOGY	207	141	66	152	55
ZOOLOGY	354	220	134	327	27
BIOSCIENCES, N.E.C.	147	87	60	77	70
HEALTH SCIENCES	15,542	3,508	12,034	10,052	5,490
ANESTHESIOLOGY	4	0	4	0	4
CANCER/ONCOLOGY	2	2	0	2	0
CARDIOLOGY	0	0	0	0	0
DENTISTRY	280	172	108	184	96
ENDOCRINOLOGY	5	4	1	5	0
GASTROENTEROLOGY	1	0	1	0	1
HEMATOLOGY	0	0	0	0	0
NEUROLOGY	3	2	1	3	0
NURSING	7,272	328	6,944	5,063	2,209
OBSTETRICS/GYNECOLOGY	3	1	2	2	1
OPHTHALMOLOGY	3	1	2	3	0
OTORHINOLARYNGOLOGY	0	0	0	0	0
PEDIATRICS	2	1	1	1	1
PHARMACEUTICAL SCIENCES	913	654	259	251	662
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,660	1,240	1,420	1,318	1,342
PSYCHIATRY	49	30	19	15	34
PULMONARY DISEASE	0	0	0	0	0
RADIOLOGY	40	29	11	34	6
SPEECH PATHOLOGY/AUDIOLOGY	2,134	290	1,844	1,828	306
SURGERY	6	3	3	0	6
VETERINARY SCIENCES	241	143	98	241	0
CLINICAL MEDICINE, N.E.C.	143	67	76	114	29
HEALTH RELATED, N.E.C.	1,781	541	1,240	988	793
PSYCHOLOGY	7,487	3,304	4,183	3,487	4,000
SOCIAL SCIENCES	26,372	14,505	11,867	16,113	10,259
AGRICULTURAL ECONOMICS	217	185	32	215	2
ANTHROPOLOGY	1,557	711	846	1,104	453
ECONOMICS (EXCEPT AGRICULTURAL)	3,314	2,389	925	1,732	1,582
GEOGRAPHY	684	473	211	653	31
HISTORY AND PHILOSOPHY OF SCIENCE	31	17	14	19	12
LINGUISTICS	739	314	425	415	324
POLITICAL SCIENCE	11,543	6,845	4,698	6,242	5,301
SOCIOLOGY	2,053	982	1,071	1,351	702
SOCIOLOGY/ANTHROPOLOGY	441	198	243	204	237
SOCIAL SCIENCES, N.E.C.	5,793	2,391	3,402	4,178	1,615

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-22. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, SEX, AND TYPE OF CONTROL: 1981

FIELD	TOTAL	SEX		TYPE OF CONTROL	
		MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	32,932	17,891	15,041	21,997	10,935
ENGINEERING	4,696	4,244	452	2,803	1,893
AEROSPACE	4	4	0	0	4
AGRICULTURAL	0	0	0	0	0
BIOMEDICAL	31	25	6	21	10
CHEMICAL	154	130	24	88	66
CIVIL	743	684	59	629	114
ELECTRICAL	999	941	58	491	508
ENGINEERING SCIENCE	196	183	13	1	195
INDUSTRIAL	628	537	91	248	380
MECHANICAL	620	592	28	270	350
METALLURGICAL/MATERIALS	60	49	11	10	50
MINING	1	1	0	1	0
NUCLEAR	0	0	0	0	0
PETROLEUM	0	0	0	0	0
ENGINEERING, N.E.C.	1,260	1,098	162	1,044	216
PHYSICAL SCIENCES	823	573	250	599	224
ASTRONOMY	0	0	0	0	0
CHEMISTRY	562	375	187	367	195
PHYSICS	179	153	26	150	29
PHYSICAL SCIENCES, N.E.C.	82	45	37	82	0
ENVIRONMENTAL SCIENCES	823	601	222	766	57
ATMOSPHERIC SCIENCES	3	3	0	3	0
GEOSCIENCES	346	266	80	346	0
OCEANOGRAPHY	116	82	34	116	0
ENVIRONMENTAL SCIENCES, N.E.C.	358	250	108	301	57
MATHEMATICAL/COMPUTER SCIENCES	3,600	2,363	1,237	2,446	1,154
COMPUTER SCIENCE	2,215	1,544	671	1,252	963
MATHEMATICS AND APPLIED MATHEMATICS	1,260	727	533	1,154	106
STATISTICS	125	92	33	40	85
LIFE SCIENCES	7,256	2,496	4,760	5,391	1,865
AGRICULTURAL SCIENCES	314	261	53	314	0
BIOLOGICAL SCIENCES	2,844	1,454	1,390	2,168	676
ANATOMY	0	0	0	0	0
BIOCHEMISTRY	20	10	10	0	20
BIOLOGY	2,318	1,250	1,068	1,923	395
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0
BOTANY	9	5	4	2	7
CELL BIOLOGY	0	0	0	0	0
ECOLOGY	45	18	27	6	39
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0
GENETICS	3	0	3	0	3
MICROBIOLOGY	135	72	63	63	72
NUTRITION	140	5	135	101	39
PATHOLOGY	43	23	20	27	16
PHARMACOLOGY	10	3	7	0	10
PHYSIOLOGY	0	0	0	0	0
ZOOLOGY	20	10	10	6	14
BIOSCIENCES, N.E.C.	101	58	43	40	61
HEALTH SCIENCES	4,098	781	3,317	2,909	1,189
ANESTHESIOLOGY	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0
CARDIOLOGY	8	4	4	0	8
DENTISTRY	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0
NEUROLOGY	0	0	0	0	0
NURSING	1,233	59	1,174	806	427
OBSTETRICS/GYNECOLOGY	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0
PEDIATRICS	0	0	0	0	0
PHARMACEUTICAL SCIENCES	10	6	4	0	10
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	66	10	56	66	0
PSYCHIATRY	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0
RADIOLOGY	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	1,088	73	1,015	977	111
SURGERY	0	0	0	0	0
VETERINARY SCIENCES	1	0	1	0	1
CLINICAL MEDICINE, N.E.C.	299	83	216	160	139
HEALTH RELATED, N.E.C.	1,393	546	847	900	493
PSYCHOLOGY	6,572	2,558	4,014	3,995	2,577
SOCIAL SCIENCES	9,162	5,056	4,106	5,997	3,165
AGRICULTURAL ECONOMICS	4	4	0	4	0
ANTHROPOLOGY	234	92	142	231	3
ECONOMICS (EXCEPT AGRICULTURAL)	639	430	209	374	265
GEOGRAPHY	267	180	87	265	2
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0
LINGUISTICS	115	23	92	115	0
POLITICAL SCIENCE	5,152	3,000	2,152	3,306	1,846
SOCIOLOGY	483	171	312	387	96
SOCIOLOGY/ANTHROPOLOGY	38	23	15	37	1
SOCIAL SCIENCES, N.E.C.	2,230	1,133	1,097	1,278	952

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-23. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD AND RACIAL/ETHNIC BACKGROUND: 1981

FIELD	TOTAL	U.S. CITIZENS					FOREIGN, OTHER, OR UNKNOWN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	
TOTAL, ALL FIELDS	138,606	4,744	231	2,846	2,757	77,111	50,917
ENGINEERING	36,316	546	45	1,117	475	20,302	13,831
AEROSPACE	400	3	0	19	4	250	124
AGRICULTURAL	135	1	1	2	0	95	36
BIOMEDICAL	185	3	0	2	1	106	73
CHEMICAL	1,550	18	7	63	35	909	518
CIVIL	5,144	62	2	177	95	2,708	2,100
ELECTRICAL	9,759	102	5	326	131	4,705	4,490
ENGINEERING SCIENCE	783	11	0	13	4	362	393
INDUSTRIAL	8,132	203	17	153	102	5,474	2,183
MECHANICAL	4,347	35	1	133	41	1,956	2,181
METALLURGICAL/MATERIALS	666	9	0	26	6	377	248
MINING	118	0	0	0	1	61	56
NUCLEAR	265	2	0	8	2	220	33
PETROLEUM	128	0	0	2	0	28	98
ENGINEERING, N.E.C.	4,704	97	12	193	53	3,051	1,298
PHYSICAL SCIENCES	3,997	107	4	138	49	2,300	1,399
ASTRONOMY	32	1	0	0	0	30	1
CHEMISTRY	2,645	79	3	99	29	1,461	974
PHYSICS	1,222	24	0	32	20	751	395
PHYSICAL SCIENCES, N.E.C.	98	3	1	7	0	58	29
ENVIRONMENTAL SCIENCES	3,219	30	5	25	23	2,040	1,096
ATMOSPHERIC SCIENCES	142	0	1	2	0	118	21
GEOSCIENCES	1,746	12	3	11	8	1,218	494
OCEANOGRAPHY	460	3	1	5	12	223	216
ENVIRONMENTAL SCIENCES, N.E.C.	871	15	0	7	3	481	365
MATHEMATICAL/COMPUTER SCIENCES	14,536	317	4	510	148	7,061	6,496
COMPUTER SCIENCE	9,178	151	2	381	81	3,823	4,740
MATHEMATICS AND APPLIED MATHEMATICS	4,923	150	2	109	61	2,962	1,639
STATISTICS	435	16	0	20	6	276	117
LIFE SCIENCES	30,945	1,021	46	440	430	19,505	9,503
AGRICULTURAL SCIENCES	2,023	34	4	25	34	1,352	574
BIOLOGICAL SCIENCES	9,282	268	6	157	131	5,795	2,925
ANATOMY	82	1	0	3	0	69	9
BIOCHEMISTRY	278	3	0	9	2	142	122
BIOLOGY	4,810	191	4	66	73	2,986	1,490
BIOMETRY/EPIDEMIOLOGY	198	2	1	7	1	127	60
BIOPHYSICS	13	0	0	0	1	10	2
BOTANY	442	7	0	8	4	302	121
CELL BIOLOGY	17	0	0	0	1	15	1
ECOLOGY	131	0	0	1	2	49	79
ENTOMOLOGY/PARASITOLOGY	198	3	1	5	3	145	41
GENETICS	64	0	0	2	2	50	10
MICROBIOLOGY	491	2	0	13	12	285	179
NUTRITION	1,147	28	0	27	17	772	303
PATHOLOGY	475	12	0	10	7	303	143
PHARMACOLOGY	107	2	0	1	1	68	35
PHYSIOLOGY	207	2	0	3	2	135	65
ZOOLOGY	374	11	0	2	1	194	166
BIOSCIENCES, N.E.C.	248	4	0	0	2	143	99
HEALTH SCIENCES	19,640	719	36	258	265	12,358	6,004
ANESTHESIOLOGY	4	0	0	0	0	3	1
CANCER/ONCOLOGY	2	0	0	0	0	0	2
CARDIOLOGY	8	0	0	0	0	8	0
DENTISTRY	280	8	0	5	5	173	89
ENDOCRINOLOGY	5	0	0	0	0	5	0
GASTROENTEROLOGY	1	0	0	0	0	1	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	3	0	0	0	0	3	0
NURSING	8,505	237	16	74	67	5,528	2,581
OBSTETRICS/GYNECOLOGY	3	0	0	1	0	1	1
OPHTHALMOLOGY	3	0	0	0	0	3	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	2	0	0	0	0	2	0
PHARMACEUTICAL SCIENCES	923	14	0	36	3	312	558
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,726	116	4	55	53	1,748	750
PSYCHIATRY	49	0	0	2	1	45	1
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	40	4	0	0	0	8	28
SPEECH PATHOLOGY/AUDIOLOGY	3,222	118	5	14	32	2,249	804
SURGERY	6	0	0	1	1	4	0
VETERINARY SCIENCES	242	3	1	2	0	178	58
CLINICAL MEDICINE, N.E.C.	442	18	0	21	7	228	168
HEALTH RELATED, N.E.C.	3,174	201	10	45	96	1,859	963
PSYCHOLOGY	14,059	452	45	78	276	7,427	5,781
SOCIAL SCIENCES	35,534	2,271	82	538	1,356	18,476	12,811
AGRICULTURAL ECONOMICS	221	6	0	4	4	149	58
ANTHROPOLOGY	1,791	17	6	11	22	1,098	637
ECONOMICS (EXCEPT AGRICULTURAL)	3,953	118	13	78	108	1,952	1,684
GEOGRAPHY	951	13	1	7	11	700	219
HISTORY AND PHILOSOPHY OF SCIENCE	31	0	0	0	0	30	1
LINGUISTICS	854	9	0	10	19	449	367
POLITICAL SCIENCE	16,695	1,301	35	251	886	7,835	6,387
SOCIOLOGY	2,536	203	8	35	60	1,298	932
SOCIOLOGY/ANTHROPOLOGY	479	38	0	2	9	243	187
SOCIAL SCIENCES, N.E.C.	8,023	566	19	140	237	4,722	2,339

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-24. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD AND RACIAL/ETHNIC BACKGROUND: 1981

FIELD	TOTAL	U.S. CITIZENS					FOREIGN, OTHER, OR UNKNOWN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	
TOTAL, ALL FIELDS	105,674	3,492	173	2,254	2,191	61,569	35,995
ENGINEERING	31,620	478	44	942	417	18,709	11,030
AEROSPACE	396	3	0	19	4	250	120
AGRICULTURAL	135	1	1	2	0	95	36
BIOMEDICAL	154	3	0	2	1	106	42
CHEMICAL	1,396	15	7	55	30	802	487
CIVIL	4,401	55	1	145	83	2,502	1,615
ELECTRICAL	8,760	87	5	301	122	4,411	3,834
ENGINEERING SCIENCE	587	4	0	11	3	257	312
INDUSTRIAL	7,504	189	17	142	94	5,207	1,855
MECHANICAL	3,727	34	1	123	37	1,890	1,642
METALLURGICAL/MATERIALS	606	7	0	26	6	360	207
MINING	117	0	0	0	1	60	56
NUCLEAR	265	2	0	8	2	220	33
PETROLEUM	128	0	0	2	0	28	98
ENGINEERING, N.E.C.	3,444	78	12	106	34	2,521	693
PHYSICAL SCIENCES	3,174	71	1	113	40	1,897	1,052
ASTRONOMY	32	1	0	0	0	30	1
CHEMISTRY	2,083	55	1	82	25	1,199	721
PHYSICS	1,043	15	0	30	15	665	318
PHYSICAL SCIENCES, N.E.C.	16	0	0	1	0	3	12
ENVIRONMENTAL SCIENCES	2,396	19	5	15	20	1,639	698
ATMOSPHERIC SCIENCES	139	0	1	2	0	115	21
GEOSCIENCES	1,400	9	3	5	6	1,018	359
OCEANOGRAPHY	344	3	1	5	12	199	124
ENVIRONMENTAL SCIENCES, N.E.C.	513	7	0	3	2	307	194
MATHEMATICAL/COMPUTER SCIENCES	10,936	231	3	392	81	5,788	4,441
COMPUTER SCIENCE	6,963	111	1	303	35	3,229	3,284
MATHEMATICS AND APPLIED MATHEMATICS	3,663	111	2	77	43	2,350	1,080
STATISTICS	310	9	0	12	3	209	77
LIFE SCIENCES	23,689	695	31	316	314	15,332	7,001
AGRICULTURAL SCIENCES	1,709	11	3	15	32	1,249	399
BIOLOGICAL SCIENCES	6,438	159	3	113	86	4,165	1,912
ANATOMY	82	1	0	3	0	69	9
BIOCHEMISTRY	258	3	0	9	2	142	102
BIOLOGY	2,492	94	1	30	40	1,630	697
BIOMETRY/EPIDEMIOLOGY	198	2	1	7	1	127	60
BIOPHYSICS	13	0	0	0	1	10	2
BOTANY	433	7	0	8	4	293	121
CELL BIOLOGY	17	0	0	0	1	15	1
ECOLOGY	86	0	0	1	1	43	41
ENTOMOLOGY/PARASITOLOGY	198	3	1	5	3	145	41
GENETICS	61	0	0	2	2	47	10
MICROBIOLOGY	356	2	0	6	7	203	138
NUTRITION	1,007	20	0	26	13	701	247
PATHOLOGY	432	12	0	10	7	297	106
PHARMACOLOGY	97	2	0	1	1	68	25
PHYSIOLOGY	207	2	0	3	2	135	65
ZOOLOGY	354	11	0	2	1	174	166
BIOSCIENCES, N.E.C.	147	0	0	0	0	66	81
HEALTH SCIENCES	15,542	525	25	188	196	9,918	4,690
ANESTHESIOLOGY	4	0	0	0	0	3	1
CANCER/ONCOLOGY	2	0	0	0	0	0	2
CARDIOLOGY	0	0	0	0	0	0	0
DENTISTRY	280	8	0	5	5	173	89
ENDOCRINOLOGY	5	0	0	0	0	5	0
GASTROENTEROLOGY	1	0	0	0	0	1	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	3	0	0	0	0	3	0
NURSING	7,272	186	12	58	55	4,652	2,309
OBSTETRICS/GYNECOLOGY	3	0	0	1	0	1	1
OPHTHALMOLOGY	3	0	0	0	0	3	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	2	0	0	0	0	2	0
PHARMACEUTICAL SCIENCES	913	14	0	36	3	312	548
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,660	116	4	55	53	1,738	694
PSYCHIATRY	49	0	0	2	1	45	1
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	40	4	0	0	0	8	28
SPEECH PATHOLOGY/AUDIOLOGY	2,134	81	2	9	13	1,530	499
SURGERY	4	0	0	1	1	4	0
VETERINARY SCIENCES	241	3	1	2	0	177	58
CLINICAL MEDICINE, N.E.C.	143	5	0	3	2	113	20
HEALTH RELATED, N.E.C.	1,781	108	6	16	63	1,148	440
PSYCHOLOGY	7,487	248	28	43	191	3,938	3,039
SOCIAL SCIENCES	26,372	1,750	61	433	1,128	14,266	8,734
AGRICULTURAL ECONOMICS	217	6	0	4	4	148	55
ANTHROPOLOGY	1,557	16	5	10	16	957	553
ECONOMICS (EXCEPT AGRICULTURAL)	3,314	99	13	64	103	1,685	1,350
GEOGRAPHY	684	6	1	3	5	515	154
HISTORY AND PHILOSOPHY OF SCIENCE	31	0	0	0	0	30	1
LINGUISTICS	739	7	0	8	8	405	311
POLITICAL SCIENCE	11,543	1,011	25	188	786	5,431	4,102
SOCIOLOGY	2,053	150	6	29	49	1,123	696
SOCIOLOGY/ANTHROPOLOGY	441	38	0	2	9	234	158
SOCIAL SCIENCES, N.E.C.	5,793	417	11	125	148	3,738	1,354

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-25. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD AND RACIAL/ETHNIC BACKGROUND: 1981

FIELD	TOTAL	U.S. CITIZENS					FOREIGN, OTHER, OR UNKNOWN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	
TOTAL, ALL FIELDS	32,932	1,252	58	592	566	15,542	14,922
ENGINEERING	4,696	68	1	175	58	1,593	2,801
AEROSPACE	4	0	0	0	0	0	4
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	31	0	0	0	0	0	31
CHEMICAL	154	3	0	8	5	107	31
CIVIL	743	7	1	32	12	206	485
ELECTRICAL	999	15	0	25	9	294	656
ENGINEERING SCIENCE	196	7	0	2	1	105	81
INDUSTRIAL	628	14	0	11	8	267	328
MECHANICAL	620	1	0	10	4	66	539
METALLURGICAL/MATERIALS	60	2	0	0	0	17	41
MINING	1	0	0	0	0	1	0
NUCLEAR	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	1,260	19	0	87	19	530	605
PHYSICAL SCIENCES	823	36	3	25	9	403	347
ASTRONOMY	0	0	0	0	0	0	0
CHEMISTRY	562	24	2	17	4	262	253
PHYSICS	179	9	0	2	5	86	77
PHYSICAL SCIENCES, N.E.C.	82	3	1	6	0	55	17
ENVIRONMENTAL SCIENCES	823	11	0	10	3	401	398
ATMOSPHERIC SCIENCES	3	0	0	0	0	3	0
GEOSCIENCES	346	3	0	6	2	200	135
OCEANOGRAPHY	116	0	0	0	0	24	92
ENVIRONMENTAL SCIENCES, N.E.C.	358	8	0	4	1	174	171
MATHEMATICAL/COMPUTER SCIENCES	3,600	86	1	118	67	1,273	2,055
COMPUTER SCIENCE	2,215	40	1	78	46	594	1,456
MATHEMATICS AND APPLIED MATHEMATICS	1,260	39	0	32	18	612	559
STATISTICS	125	7	0	8	3	67	40
LIFE SCIENCES	7,256	326	15	124	116	4,173	2,502
AGRICULTURAL SCIENCES	314	23	1	10	2	103	175
BIOLOGICAL SCIENCES	2,844	109	3	44	45	1,630	1,013
ANATOMY	0	0	0	0	0	0	0
BIOCHEMISTRY	20	0	0	0	0	0	20
BIOLOGY	2,318	97	3	36	33	1,356	793
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0
BOTANY	9	0	0	0	0	9	0
CELL BIOLOGY	0	0	0	0	0	0	0
ECOLOGY	45	0	0	0	1	6	38
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0
GENETICS	3	0	0	0	0	3	0
MICROBIOLOGY	135	0	0	7	5	82	41
NUTRITION	140	8	0	1	4	71	56
PATHOLOGY	43	0	0	0	0	6	37
PHARMACOLOGY	10	0	0	0	0	0	10
PHYSIOLOGY	0	0	0	0	0	0	0
ZOOLOGY	20	0	0	0	0	20	0
BIOSCIENCES, N.E.C.	101	4	0	0	2	77	18
HEALTH SCIENCES	4,098	194	11	70	69	2,440	1,314
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0
CARDIOLOGY	8	0	0	0	0	8	0
DENTISTRY	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0
NURSING	1,233	51	4	18	12	876	272
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	10	0	0	0	0	0	10
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	66	0	0	0	0	10	56
PSYCHIATRY	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	1,088	37	3	5	19	719	305
SURGERY	0	0	0	0	0	0	0
VETERINARY SCIENCES	1	0	0	0	0	1	0
CLINICAL MEDICINE, N.E.C.	299	13	0	18	5	115	148
HEALTH RELATED, N.E.C.	1,393	93	4	29	33	711	523
PSYCHOLOGY	6,572	204	17	35	85	3,489	2,742
SOCIAL SCIENCES	9,162	521	21	105	228	4,210	4,077
AGRICULTURAL ECONOMICS	4	0	0	0	0	1	3
ANTHROPOLOGY	234	1	1	1	6	141	84
ECONOMICS (EXCEPT AGRICULTURAL)	639	19	0	14	5	267	334
GEOGRAPHY	267	7	0	4	6	185	65
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0
LINGUISTICS	115	2	0	2	11	44	56
POLITICAL SCIENCE	5,152	290	10	63	100	2,404	2,285
SOCIOLOGY	483	53	2	6	11	175	236
SOCIOLOGY/ANTHROPOLOGY	38	0	0	0	0	9	29
SOCIAL SCIENCES, N.E.C.	2,230	149	8	15	89	984	985

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-26. — SCIENCE/ENGINEERING POSTDOCTORATES IN ALL GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1981

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	19,690	14,603	2,205	2,632	9,766	5,087	7,312
ENGINEERING	1,032	748	26	49	673	284	699
AEROSPACE	14	11	0	0	11	3	6
AGRICULTURAL	9	3	0	0	3	6	5
BIOMEDICAL	34	29	2	13	14	5	14
CHEMICAL	174	109	7	0	102	65	131
CIVIL	103	79	3	0	76	24	69
ELECTRICAL	189	148	3	28	117	41	85
ENGINEERING SCIENCE	87	59	3	0	56	28	50
INDUSTRIAL	13	10	2	0	8	3	7
MECHANICAL	123	89	4	0	85	34	98
METALLURGICAL/MATERIALS	194	150	0	0	150	44	168
MINING	16	15	0	0	15	1	11
NUCLEAR	26	17	0	0	17	9	22
PETROLEUM	2	2	0	0	2	0	2
ENGINEERING, N.E.C.	48	27	2	8	17	21	31
PHYSICAL SCIENCES	4,467	3,801	193	37	3,571	666	2,361
ASTRONOMY	132	119	5	0	114	13	37
CHEMISTRY	2,870	2,465	163	36	2,266	405	1,653
PHYSICS	1,450	1,217	25	1	1,191	233	671
PHYSICAL SCIENCES, N.E.C.	15	0	0	0	0	15	0
ENVIRONMENTAL SCIENCES	346	290	17	0	273	56	124
ATMOSPHERIC SCIENCES	46	45	1	0	44	1	22
GEOSCIENCES	219	182	10	0	172	37	82
OCEANOGRAPHY	68	50	6	0	44	18	19
ENVIRONMENTAL SCIENCES, N.E.C.	13	13	0	0	13	0	1
MATHEMATICAL/COMPUTER SCIENCES	148	84	25	4	55	64	78
COMPUTER SCIENCE	49	28	7	1	20	21	24
MATHEMATICS AND APPLIED MATHEMATICS	88	49	17	0	32	39	49
STATISTICS	11	7	1	3	3	4	5
LIFE SCIENCES	12,891	9,127	1,794	2,334	4,999	3,764	3,873
AGRICULTURAL SCIENCES	290	198	5	7	186	92	115
BIOLOGICAL SCIENCES	7,592	5,854	1,076	1,003	3,775	1,738	2,364
ANATOMY	258	199	73	31	95	59	58
BIOCHEMISTRY	1,699	1,329	209	100	1,020	370	725
BIOLOGY	858	715	144	55	516	143	242
BIOMETRY/EPIDEMIOLOGY	62	58	22	27	9	4	18
BIOPHYSICS	115	91	13	8	70	24	46
BOTANY	240	182	7	2	173	58	75
CELL BIOLOGY	501	394	130	55	209	107	150
ECOLOGY	44	33	3	3	27	11	8
ENTOMOLOGY/PARASITOLOGY	127	101	4	8	89	26	28
GENETICS	290	193	45	40	108	97	78
MICROBIOLOGY	986	755	99	202	454	231	276
NUTRITION	171	119	13	19	87	52	57
PATHOLOGY	470	309	55	141	113	161	123
PHARMACOLOGY	749	576	95	121	360	173	249
PHYSIOLOGY	754	600	128	162	310	154	179
ZOOLOGY	178	142	29	17	96	36	32
BIOSCIENCES, N.E.C.	90	58	7	12	39	32	20
HEALTH SCIENCES	5,009	3,075	713	1,324	1,038	1,934	1,394
ANESTHESIOLOGY	66	21	1	12	8	45	20
CANCER/ONCOLOGY	119	90	33	23	34	29	27
CARDIOLOGY	343	177	31	117	29	166	89
DENTISTRY	161	68	43	8	17	93	46
ENDOCRINOLOGY	200	153	32	76	45	47	57
GASTROENTEROLOGY	114	86	15	45	26	28	22
HEMATOLOGY	163	121	24	70	27	42	25
NEUROLOGY	367	246	71	94	81	121	84
NURSING	10	8	2	0	6	2	0
OBSTETRICS/GYNECOLOGY	113	45	14	10	21	68	62
OPHTHALMOLOGY	144	95	19	43	33	49	37
OTORHINOLARYNGOLOGY	41	23	8	2	13	18	17
PEDIATRICS	559	305	93	138	74	254	108
PHARMACEUTICAL SCIENCES	243	189	5	3	181	54	150
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	135	89	22	59	8	46	32
PSYCHIATRY	292	210	60	132	18	82	28
PULMONARY DISEASE	127	79	31	38	10	48	10
RADIOLOGY	165	129	17	45	67	36	70
SPEECH PATHOLOGY/AUDIOLOGY	17	16	3	5	8	1	2
SURGERY	297	164	41	36	87	133	140
VETERINARY SCIENCES	46	22	1	9	12	24	17
CLINICAL MEDICINE, N.E.C.	1,173	657	141	335	181	516	318
HEALTH RELATED, N.E.C.	114	82	6	24	52	32	33
PSYCHOLOGY	473	373	86	145	142	100	54
SOCIAL SCIENCES	333	180	64	63	53	153	123
AGRICULTURAL ECONOMICS	6	3	0	0	3	3	1
ANTHROPOLOGY	31	20	5	10	5	11	4
ECONOMICS (EXCEPT AGRICULTURAL)	29	19	1	5	13	10	11
GEOGRAPHY	23	2	1	0	1	21	16
HISTORY AND PHILOSOPHY OF SCIENCE	21	7	4	0	3	14	8
LINGUISTICS	47	7	3	0	4	40	27
POLITICAL SCIENCE	47	40	33	1	6	7	24
SOCIOLOGY	90	73	15	46	12	17	11
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	39	9	2	1	6	30	21

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-27. -- SCIENCE/ENGINEERING POSTDOCTORATES IN PUBLIC GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1981

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	10,825	8,318	1,081	1,243	5,994	2,507	4,161
ENGINEERING	519	386	14	40	332	133	336
AEROSPACE	8	7	0	0	7	1	3
AGRICULTURAL	6	2	0	0	2	4	5
BIOMEDICAL	16	14	1	7	6	2	6
CHEMICAL	110	69	3	0	66	41	83
CIVIL	33	25	3	0	22	8	21
ELECTRICAL	114	103	3	26	74	11	41
ENGINEERING SCIENCE	9	7	0	0	7	2	5
INDUSTRIAL	12	9	1	0	8	3	6
MECHANICAL	56	39	1	0	38	17	41
METALLURGICAL/MATERIALS	89	68	0	0	68	21	77
MINING	7	6	0	0	6	1	7
NUCLEAR	21	15	0	0	15	6	18
PETROLEUM	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	38	22	2	7	13	16	23
PHYSICAL SCIENCES	2,770	2,354	82	26	2,246	416	1,527
ASTRONOMY	67	58	5	0	53	9	14
CHEMISTRY	1,800	1,538	71	25	1,442	262	1,075
PHYSICS	903	758	6	1	751	145	438
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	228	195	16	0	179	33	87
ATMOSPHERIC SCIENCES	41	41	1	0	40	0	22
GEOSCIENCES	126	106	9	0	97	20	49
OCEANOGRAPHY	50	37	6	0	31	13	15
ENVIRONMENTAL SCIENCES, N.E.C.	11	11	0	0	11	0	1
MATHEMATICAL/COMPUTER SCIENCES	61	28	7	1	20	33	32
COMPUTER SCIENCE	16	8	2	1	5	8	6
MATHEMATICS AND APPLIED MATHEMATICS	40	16	4	0	12	24	24
STATISTICS	5	4	1	0	3	1	2
LIFE SCIENCES	6,828	5,048	901	1,049	3,098	1,780	2,105
AGRICULTURAL SCIENCES	278	190	5	5	180	88	110
BIOLOGICAL SCIENCES	4,335	3,418	566	518	2,334	917	1,309
ANATOMY	140	110	50	5	55	30	34
BIOCHEMISTRY	1,005	792	90	59	643	213	422
BIOLOGY	414	346	47	29	270	68	126
BIOMETRY/EPIDEMIOLOGY	29	27	15	9	3	2	10
BIOPHYSICS	47	35	6	4	25	12	18
BOTANY	211	161	7	2	152	50	68
CELL BIOLOGY	199	172	52	29	91	27	55
ECOLOGY	39	30	2	3	25	9	7
ENTOMOLOGY/PARASITOLOGY	115	90	4	4	82	25	27
GENETICS	162	112	31	13	68	50	36
MICROBIOLOGY	664	534	69	145	320	130	170
NUTRITION	74	62	6	3	53	12	32
PATHOLOGY	209	129	37	46	46	80	39
PHARMACOLOGY	391	312	46	61	205	79	134
PHYSIOLOGY	444	348	82	88	178	96	99
ZOOLOGY	162	128	22	12	94	34	31
BIOSCIENCES, N.E.C.	30	30	0	6	24	0	1
HEALTH SCIENCES	2,215	1,440	330	526	584	775	686
ANESTHESIOLOGY	28	5	1	3	1	23	9
CANCER/ONCOLOGY	101	75	32	13	30	26	25
CARDIOLOGY	190	100	10	75	15	90	51
DENTISTRY	49	34	22	2	10	15	9
ENDOCRINOLOGY	102	73	19	31	23	29	35
GASTROENTEROLOGY	52	35	8	18	9	17	10
HEMATOLOGY	76	55	14	26	15	21	15
NEUROLOGY	147	99	30	32	37	48	32
NURSING	9	7	2	0	5	2	0
OBSTETRICS/GYNECOLOGY	48	16	6	4	6	32	23
OPHTHALMOLOGY	40	25	7	12	6	15	7
OTORHINOLARYNGOLOGY	19	16	6	2	8	3	6
PEDIATRICS	153	95	28	42	25	58	33
PHARMACEUTICAL SCIENCES	230	182	5	3	174	48	141
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	63	52	17	31	4	11	12
PSYCHIATRY	107	89	23	53	13	18	11
PULMONARY DISEASE	77	45	23	15	7	32	4
RADIOLOGY	53	42	9	14	19	11	17
SPEECH PATHOLOGY/AUDIOLOGY	6	6	0	0	6	0	1
SURGERY	131	75	16	11	43	56	72
VETERINARY SCIENCES	35	11	1	4	6	24	13
CLINICAL MEDICINE, N.E.C.	430	244	47	120	77	186	136
HEALTH RELATED, N.E.C.	69	59	4	15	40	10	24
PSYCHOLOGY	261	214	38	92	84	47	25
SOCIAL SCIENCES	158	93	23	35	35	65	49
AGRICULTURAL ECONOMICS	5	3	0	0	3	2	1
ANTHROPOLOGY	21	13	4	7	2	8	3
ECONOMICS (EXCEPT AGRICULTURAL)	12	9	1	2	6	3	3
GEOGRAPHY	22	2	1	0	1	20	15
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	1	0	0	0	0
LINGUISTICS	19	5	1	0	4	14	13
POLITICAL SCIENCE	7	6	1	1	4	1	2
SOCIOLOGY	55	47	12	25	10	8	5
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	16	7	2	0	5	9	7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-28. -- SCIENCE/ENGINEERING POSTDOCTORATES IN PRIVATE GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1981

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	8,865	6,285	1,124	1,389	3,772	2,580	3,151
ENGINEERING	513	362	12	9	341	151	363
AEROSPACE	6	4	0	0	4	2	3
AGRICULTURAL	3	1	0	0	1	2	0
BIOMEDICAL	18	15	1	6	8	3	8
CHEMICAL	64	40	4	0	36	24	48
CIVIL	70	54	0	0	54	16	48
ELECTRICAL	75	45	0	2	43	30	44
ENGINEERING SCIENCE	78	52	3	0	49	26	45
INDUSTRIAL	1	1	1	0	0	0	1
MECHANICAL	67	50	3	0	47	17	57
METALLURGICAL/MATERIALS	105	82	0	0	82	23	91
MINING	9	9	0	0	9	0	4
NUCLEAR	5	2	0	0	2	3	4
PETROLEUM	2	2	0	0	2	0	2
ENGINEERING, N.E.C.	10	5	0	1	4	5	8
PHYSICAL SCIENCES	1,697	1,447	111	11	1,325	250	834
ASTRONOMY	65	61	0	0	61	4	23
CHEMISTRY	1,070	927	92	11	824	143	578
PHYSICS	547	459	19	0	440	88	233
PHYSICAL SCIENCES, N.E.C.	15	0	0	0	0	15	0
ENVIRONMENTAL SCIENCES	118	95	1	0	94	23	37
ATMOSPHERIC SCIENCES	5	4	0	0	4	1	0
GEOSCIENCES	93	76	1	0	75	17	33
OCEANOGRAPHY	18	13	0	0	13	5	4
ENVIRONMENTAL SCIENCES, N.E.C.	2	2	0	0	2	0	0
MATHEMATICAL/COMPUTER SCIENCES	87	56	18	3	35	31	46
COMPUTER SCIENCE	33	20	5	0	15	13	18
MATHEMATICS AND APPLIED MATHEMATICS	48	33	13	0	20	15	25
STATISTICS	6	3	0	3	0	3	3
LIFE SCIENCES	6,063	4,079	893	1,285	1,901	1,984	1,768
AGRICULTURAL SCIENCES	12	8	0	2	6	4	5
BIOLOGICAL SCIENCES	3,257	2,436	510	485	1,441	821	1,055
ANATOMY	118	89	23	26	40	29	24
BIOCHEMISTRY	694	537	119	41	377	157	303
BIOLOGY	444	369	97	26	246	75	116
BIOMETRY/EPIDEMIOLOGY	33	31	7	18	6	2	8
BIOPHYSICS	68	56	7	4	45	12	28
BOTANY	29	21	0	0	21	8	7
CELL BIOLOGY	302	222	78	26	118	80	95
ECOLOGY	5	3	1	0	2	2	1
ENTOMOLOGY/PARASITOLOGY	12	11	0	4	7	1	1
GENETICS	128	81	14	27	40	47	42
MICROBIOLOGY	322	221	30	57	134	101	106
NUTRITION	97	57	7	16	34	40	25
PATHOLOGY	261	180	18	95	67	81	84
PHARMACOLOGY	358	264	49	60	155	94	115
PHYSIOLOGY	310	252	46	74	132	58	80
ZOOLOGY	16	14	7	5	2	2	1
BIOSCIENCES, N.E.C.	60	28	7	6	15	32	19
HEALTH SCIENCES	2,794	1,635	383	798	454	1,159	708
ANESTHESIOLOGY	38	16	0	9	7	22	11
CANCER/ONCOLOGY	18	15	1	10	4	3	2
CARDIOLOGY	153	77	21	42	14	76	38
DENTISTRY	112	34	21	6	7	78	37
ENDOCRINOLOGY	98	80	13	45	22	18	22
GASTROENTEROLOGY	62	51	7	27	17	11	12
HEMATOLOGY	87	66	10	44	12	21	10
NEUROLOGY	220	147	41	62	44	73	52
NURSING	1	1	0	0	1	0	0
OBSTETRICS/GYNECOLOGY	65	29	8	6	15	36	39
OPHTHALMOLOGY	104	70	12	31	27	34	30
OTORHINOLARYNGOLOGY	22	7	2	0	5	15	11
PEDIATRICS	406	210	65	96	49	196	75
PHARMACEUTICAL SCIENCES	13	7	0	0	7	6	9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	72	37	5	28	4	35	20
PSYCHIATRY	185	121	37	79	5	64	17
PULMONARY DISEASE	50	34	8	23	3	16	6
RADIOLOGY	112	87	8	31	48	25	53
SPEECH PATHOLOGY/AUDIOLOGY	11	10	3	5	2	1	1
SURGERY	166	89	25	25	39	77	68
VETERINARY SCIENCES	11	11	0	5	6	0	4
CLINICAL MEDICINE, N.E.C.	743	413	94	215	104	330	182
HEALTH RELATED, N.E.C.	45	23	2	9	12	22	9
PSYCHOLOGY	212	159	48	53	58	53	29
SOCIAL SCIENCES	175	87	41	28	18	88	74
AGRICULTURAL ECONOMICS	1	0	0	0	0	1	0
ANTHROPOLOGY	10	7	1	3	3	3	1
ECONOMICS (EXCEPT AGRICULTURAL)	17	10	0	3	7	7	8
GEOGRAPHY	1	0	0	0	0	1	1
HISTORY AND PHILOSOPHY OF SCIENCE	20	6	3	0	3	14	8
LINGUISTICS	28	2	2	0	0	26	14
POLITICAL SCIENCE	40	34	32	0	2	6	22
SOCIOLOGY	35	26	3	21	2	9	6
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	23	2	0	1	1	21	14

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-29. -- MALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1981

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	15,590	11,578	1,676	1,907	7,995	4,012	6,330
ENGINEERING	952	691	25	45	621	261	657
AEROSPACE	12	9	0	0	9	3	4
AGRICULTURAL	9	3	0	0	3	6	5
BIOMEDICAL	28	26	1	11	14	2	13
CHEMICAL	162	102	7	0	95	60	124
CIVIL	95	72	3	0	69	23	63
ELECTRICAL	179	141	3	28	110	38	80
ENGINEERING SCIENCE	84	56	3	0	53	28	50
INDUSTRIAL	10	7	2	0	5	3	7
MECHANICAL	115	85	4	0	81	30	94
METALLURGICAL/MATERIALS	178	139	0	0	139	39	159
MINING	11	10	0	0	10	1	7
NUCLEAR	22	14	0	0	14	8	20
PETROLEUM	2	2	0	0	2	0	2
ENGINEERING, N.E.C.	45	25	2	6	17	20	29
PHYSICAL SCIENCES	3,991	3,389	168	32	3,189	602	2,183
ASTRONOMY	122	110	5	0	105	12	34
CHEMISTRY	2,503	2,140	140	31	1,969	363	1,512
PHYSICS	1,351	1,139	23	1	1,115	212	637
PHYSICAL SCIENCES, N.E.C.	15	0	0	0	0	15	0
ENVIRONMENTAL SCIENCES	312	264	15	0	249	48	115
ATMOSPHERIC SCIENCES	42	41	1	0	40	1	21
GEOSCIENCES	198	165	10	0	155	33	76
OCEANOGRAPHY	59	45	4	0	41	14	17
ENVIRONMENTAL SCIENCES, N.E.C.	13	13	0	0	13	0	1
MATHEMATICAL/COMPUTER SCIENCES	129	71	18	3	50	58	72
COMPUTER SCIENCE	40	22	3	0	19	18	21
MATHEMATICS AND APPLIED MATHEMATICS	79	43	14	0	29	36	46
STATISTICS	10	6	1	3	2	4	5
LIFE SCIENCES	9,690	6,821	1,349	1,708	3,764	2,869	3,165
AGRICULTURAL SCIENCES	254	175	4	6	165	79	108
BIOLOGICAL SCIENCES	5,585	4,301	793	728	2,780	1,284	1,889
ANATOMY	182	143	54	20	69	39	45
BIOCHEMISTRY	1,284	1,010	167	75	768	274	590
BIOLOGY	585	482	99	32	351	103	188
BIOMETRY/EPIDEMIOLOGY	40	37	12	16	9	3	17
BIOPHYSICS	99	77	13	6	58	22	41
BOTANY	178	129	5	2	122	49	62
CELL BIOLOGY	357	289	95	42	152	68	106
ECOLOGY	33	27	2	3	22	6	7
ENTOMOLOGY/PARASITOLOGY	107	86	4	5	77	21	25
GENETICS	185	111	23	22	66	74	54
MICROBIOLOGY	707	559	72	148	339	148	214
NUTRITION	121	85	11	11	63	36	46
PATHOLOGY	368	240	45	109	86	128	94
PHARMACOLOGY	592	448	73	98	277	144	218
PHYSIOLOGY	572	453	94	123	236	119	146
ZOOLOGY	110	87	19	8	60	23	22
BIOSCIENCES, N.E.C.	65	38	5	8	25	27	14
HEALTH SCIENCES	3,851	2,345	552	974	819	1,506	1,168
ANESTHESIOLOGY	50	18	1	9	8	32	14
CANCER/ONCOLOGY	88	64	23	20	21	24	21
CARDIOLOGY	297	157	27	104	26	140	82
DENTISTRY	136	54	37	6	11	82	36
ENDOCRINOLOGY	162	122	25	62	35	40	47
GASTROENTEROLOGY	93	71	14	40	17	22	15
HEMATOLOGY	131	94	15	55	24	37	23
NEUROLOGY	298	195	55	68	72	103	79
NURSING	8	6	0	0	6	2	0
OBSTETRICS/GYNECOLOGY	75	34	8	8	18	41	51
OPHTHALMOLOGY	111	78	15	36	27	33	31
OTORHINOLARYNGOLOGY	35	20	8	1	11	15	16
PEDIATRICS	364	206	74	85	47	158	82
PHARMACEUTICAL SCIENCES	207	160	5	3	152	47	137
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	88	50	10	35	5	38	21
PSYCHIATRY	180	128	34	80	14	52	22
PULMONARY DISEASE	118	74	30	35	9	44	7
RADIOLOGY	123	93	13	30	50	30	57
SPEECH PATHOLOGY/AUDIOLOGY	9	8	3	2	3	1	2
SURGERY	277	151	39	34	78	126	127
VETERINARY SCIENCES	25	12	1	5	6	13	13
CLINICAL MEDICINE, N.E.C.	893	488	109	239	140	405	261
HEALTH RELATED, N.E.C.	83	62	6	17	39	21	24
PSYCHOLOGY	291	226	54	87	85	65	40
SOCIAL SCIENCES	225	116	47	32	37	109	98
AGRICULTURAL ECONOMICS	6	3	0	0	3	3	1
ANTHROPOLOGY	16	10	2	5	3	6	3
ECONOMICS (EXCEPT AGRICULTURAL)	21	11	0	2	9	10	11
GEOGRAPHY	16	2	1	0	1	14	10
HISTORY AND PHILOSOPHY OF SCIENCE	15	7	4	0	3	8	5
LINGUISTICS	32	5	2	0	3	27	21
POLITICAL SCIENCE	38	31	27	1	3	7	24
SOCIOLOGY	54	43	10	24	9	11	9
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	27	4	1	0	3	23	14

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-30. — FEMALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1981

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	4,100	3,025	529	725	1,771	1,075	982
ENGINEERING	80	57	1	4	52	23	42
AEROSPACE	2	2	0	0	2	0	2
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	6	3	1	2	0	3	1
CHEMICAL	12	7	0	0	7	5	7
CIVIL	8	7	0	0	7	1	6
ELECTRICAL	10	7	0	0	7	3	5
ENGINEERING SCIENCE	3	3	0	0	3	0	0
INDUSTRIAL	3	3	0	0	3	0	0
MECHANICAL	8	4	0	0	4	4	4
METALLURGICAL/MATERIALS	16	11	0	0	11	5	9
MINING	5	5	0	0	5	0	4
NUCLEAR	4	3	0	0	3	1	2
PETROLEUM	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	3	2	0	2	0	1	2
PHYSICAL SCIENCES	476	412	25	5	382	64	178
ASTRONOMY	10	9	0	0	9	1	3
CHEMISTRY	367	325	23	5	297	42	141
PHYSICS	99	78	2	0	76	21	34
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	34	26	2	0	24	8	9
ATMOSPHERIC SCIENCES	4	4	0	0	4	0	1
GEOSCIENCES	21	17	0	0	17	4	6
OCEANOGRAPHY	9	5	2	0	3	4	2
ENVIRONMENTAL SCIENCES, N.E.C.	0	0	0	0	0	0	0
MATHEMATICAL/COMPUTER SCIENCES	19	13	7	1	5	6	6
COMPUTER SCIENCE	9	6	4	1	1	3	3
MATHEMATICS AND APPLIED MATHEMATICS	9	6	3	0	3	3	3
STATISTICS	1	1	0	0	1	0	0
LIFE SCIENCES	3,201	2,306	445	626	1,235	895	708
AGRICULTURAL SCIENCES	36	23	1	1	21	13	7
BIOLOGICAL SCIENCES	2,007	1,553	283	275	995	454	475
ANATOMY	76	56	19	11	26	20	13
BIOCHEMISTRY	415	319	42	25	252	96	135
BIOLOGY	273	233	45	23	165	40	54
BIOMETRY/EPIDEMIOLOGY	22	21	10	11	0	1	1
BIOPHYSICS	16	14	0	2	12	2	5
BOTANY	62	53	2	0	51	9	13
CELL BIOLOGY	144	105	35	13	57	39	44
ECOLOGY	11	6	1	0	5	5	1
ENTOMOLOGY/PARASITOLOGY	20	15	0	3	12	5	3
GENETICS	105	82	22	18	42	23	24
MICROBIOLOGY	279	196	27	54	115	83	62
NUTRITION	50	34	2	8	24	16	11
PATHOLOGY	102	69	10	32	27	33	29
PHARMACOLOGY	157	128	22	23	83	29	31
PHYSIOLOGY	182	147	34	39	74	35	33
ZOOLOGY	68	55	10	9	36	13	10
BIOSCIENCES, N.E.C.	25	20	2	4	14	5	6
HEALTH SCIENCES	1,158	730	161	350	219	428	226
ANESTHESIOLOGY	16	3	0	3	0	13	6
CANCER/ONCOLOGY	31	26	10	3	13	5	6
CARDIOLOGY	46	20	4	13	3	26	7
DENTISTRY	25	14	6	2	6	11	10
ENDOCRINOLOGY	38	31	7	14	10	7	10
GASTROENTEROLOGY	21	15	1	5	9	6	7
HEMATOLOGY	32	27	9	15	3	5	2
NEUROLOGY	69	51	16	26	9	18	5
NURSING	2	2	2	0	0	0	0
OBSTETRICS/GYNECOLOGY	38	11	6	2	3	27	11
OPHTHALMOLOGY	33	17	4	7	6	16	6
OTORHINOLARYNGOLOGY	6	3	0	1	2	3	1
PEDIATRICS	195	99	19	53	27	96	26
PHARMACEUTICAL SCIENCES	36	29	0	0	29	7	13
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	47	39	12	24	3	8	11
PSYCHIATRY	112	82	26	52	4	30	6
PULMONARY DISEASE	9	5	1	3	1	4	3
RADIOLOGY	42	36	4	15	17	6	13
SPEECH PATHOLOGY/AUDIOLOGY	8	8	0	3	5	0	0
SURGERY	20	13	2	2	9	7	13
VETERINARY SCIENCES	21	10	0	4	6	11	4
CLINICAL MEDICINE, N.E.C.	280	169	32	96	41	111	57
HEALTH RELATED, N.E.C.	31	20	0	7	13	11	9
PSYCHOLOGY	182	147	32	58	57	35	14
SOCIAL SCIENCES	108	64	17	31	16	44	25
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0
ANTHROPOLOGY	15	10	3	5	2	5	1
ECONOMICS (EXCEPT AGRICULTURAL)	8	8	1	3	4	0	0
GEOGRAPHY	7	0	0	0	0	7	6
HISTORY AND PHILOSOPHY OF SCIENCE	6	0	0	0	0	6	3
LINGUISTICS	15	2	1	0	1	13	6
POLITICAL SCIENCE	9	9	6	0	3	0	0
SOCIOLOGY	36	30	5	22	3	6	2
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	12	5	1	1	3	7	7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-31. -- SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NONFACULTY DOCTORAL RESEARCH STAFF IN ALL GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1981

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	19,690	19,655	35	3,560	3,552	8
ENGINEERING	1,032	1,031	1	509	506	3
AEROSPACE	14	14	0	8	8	0
AGRICULTURAL	9	9	0	3	3	0
BIOMEDICAL	34	34	0	4	4	0
CHEMICAL	174	174	0	75	75	0
CIVIL	103	103	0	33	33	0
ELECTRICAL	189	189	0	83	81	2
ENGINEERING SCIENCE	87	87	0	36	35	1
INDUSTRIAL	13	13	0	4	4	0
MECHANICAL	123	123	0	113	113	0
METALLURGICAL/MATERIALS	194	193	1	96	96	0
MINING	16	16	0	0	0	0
NUCLEAR	26	26	0	24	24	0
PETROLEUM	2	2	0	0	0	0
ENGINEERING, N.E.C.	48	48	0	30	30	0
PHYSICAL SCIENCES	4,467	4,452	15	620	619	1
ASTRONOMY	132	132	0	66	66	0
CHEMISTRY	2,870	2,861	9	290	289	1
PHYSICS	1,450	1,444	6	264	264	0
PHYSICAL SCIENCES, N.E.C.	15	15	0	0	0	0
ENVIRONMENTAL SCIENCES	346	339	7	142	142	0
ATMOSPHERIC SCIENCES	46	46	0	32	32	0
GEOSCIENCES	219	214	5	66	66	0
OCEANOGRAPHY	68	67	1	33	33	0
ENVIRONMENTAL SCIENCES, N.E.C.	13	12	1	11	11	0
MATHEMATICAL/COMPUTER SCIENCES	148	147	1	169	169	0
COMPUTER SCIENCE	49	48	1	81	81	0
MATHEMATICS AND APPLIED MATHEMATICS	88	88	0	59	59	0
STATISTICS	11	11	0	29	29	0
LIFE SCIENCES	12,891	12,881	10	1,739	1,738	1
AGRICULTURAL SCIENCES	290	290	0	70	70	0
BIOLOGICAL SCIENCES	7,592	7,585	7	1,045	1,044	1
ANATOMY	258	258	0	65	65	0
BIOCHEMISTRY	1,699	1,699	0	212	212	0
BIOLOGY	858	851	7	243	242	1
BIOMETRY/EPIDEMIOLOGY	62	62	0	21	21	0
BIOPHYSICS	115	115	0	44	44	0
BOTANY	240	240	0	29	29	0
CELL BIOLOGY	501	501	0	37	37	0
ECOLOGY	44	44	0	10	10	0
ENTOMOLOGY/PARASITOLOGY	127	127	0	35	35	0
GENETICS	290	290	0	21	21	0
MICROBIOLOGY	986	986	0	56	56	0
NUTRITION	171	171	0	26	26	0
PATHOLOGY	470	470	0	36	36	0
PHARMACOLOGY	749	749	0	70	70	0
PHYSIOLOGY	754	754	0	115	115	0
ZOOLOGY	178	178	0	18	18	0
BIOSCIENCES, N.E.C.	90	90	0	7	7	0
HEALTH SCIENCES	5,009	5,006	3	624	624	0
ANESTHESIOLOGY	66	66	0	4	4	0
CANCER/ONCOLOGY	119	119	0	11	11	0
CARDIOLOGY	343	343	0	30	30	0
DENTISTRY	161	161	0	4	4	0
ENDOCRINOLOGY	200	200	0	15	15	0
GASTROENTEROLOGY	114	114	0	8	8	0
HEMATOLOGY	163	163	0	4	4	0
NEUROLOGY	367	367	0	44	44	0
NURSING	10	8	2	2	2	0
OBSTETRICS/GYNECOLOGY	113	113	0	3	3	0
OPHTHALMOLOGY	144	144	0	7	7	0
OTORHINOLARYNGOLOGY	41	41	0	11	11	0
PEDIATRICS	559	559	0	35	35	0
PHARMACEUTICAL SCIENCES	243	243	0	31	31	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	135	135	0	33	33	0
PSYCHIATRY	292	292	0	141	141	0
PULMONARY DISEASE	127	127	0	8	8	0
RADIOLOGY	165	165	0	71	71	0
SPEECH PATHOLOGY/AUDIOLOGY	17	16	1	13	13	0
SURGERY	297	297	0	36	36	0
VETERINARY SCIENCES	46	46	0	9	9	0
CLINICAL MEDICINE, N.E.C.	1,173	1,173	0	99	99	0
HEALTH RELATED, N.E.C.	114	114	0	5	5	0
PSYCHOLOGY	473	473	0	157	156	1
SOCIAL SCIENCES	333	332	1	224	222	2
AGRICULTURAL ECONOMICS	6	6	0	23	22	1
ANTHROPOLOGY	31	30	1	21	20	1
ECONOMICS (EXCEPT AGRICULTURAL)	29	29	0	73	73	0
GEOGRAPHY	23	23	0	6	6	0
HISTORY AND PHILOSOPHY OF SCIENCE	21	21	0	0	0	0
LINGUISTICS	47	47	0	9	9	0
POLITICAL SCIENCE	47	47	0	36	36	0
SOCIOLOGY	90	90	0	48	48	0
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	39	39	0	8	8	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-32. -- SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NONFACULTY DOCTORAL RESEARCH STAFF IN PUBLIC GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1981

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	10,825	10,795	30	2,014	2,009	5
ENGINEERING	519	518	1	289	287	2
AEROSPACE	8	8	0	1	1	0
AGRICULTURAL	6	6	0	2	2	0
BIOMEDICAL	16	16	0	2	2	0
CHEMICAL	110	110	0	62	62	0
CIVIL	33	33	0	26	26	0
ELECTRICAL	114	114	0	45	43	2
ENGINEERING SCIENCE	9	9	0	4	4	0
INDUSTRIAL	12	12	0	3	3	0
MECHANICAL	56	56	0	38	38	0
METALLURGICAL/MATERIALS	89	88	1	73	73	0
MINING	7	7	0	0	0	0
NUCLEAR	21	21	0	20	20	0
PETROLEUM	0	0	0	0	0	0
ENGINEERING, N.E.C.	38	38	0	13	13	0
PHYSICAL SCIENCES	2,770	2,760	10	422	421	1
ASTRONOMY	67	67	0	40	40	0
CHEMISTRY	1,800	1,793	7	182	181	1
PHYSICS	903	900	3	200	200	0
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	228	221	7	92	92	0
ATMOSPHERIC SCIENCES	41	41	0	29	29	0
GEOSCIENCES	126	121	5	23	23	0
OCEANOGRAPHY	50	49	1	33	33	0
ENVIRONMENTAL SCIENCES, N.E.C.	11	10	1	7	7	0
MATHEMATICAL/COMPUTER SCIENCES	61	60	1	49	49	0
COMPUTER SCIENCE	16	15	1	1	1	0
MATHEMATICS AND APPLIED MATHEMATICS	40	40	0	26	26	0
STATISTICS	5	5	0	22	22	0
LIFE SCIENCES	6,828	6,818	10	1,038	1,038	0
AGRICULTURAL SCIENCES	278	278	0	61	61	0
BIOLOGICAL SCIENCES	4,335	4,328	7	632	632	0
ANATOMY	140	140	0	44	44	0
BIOCHEMISTRY	1,005	1,005	0	118	118	0
BIOLOGY	414	407	7	111	111	0
BIOMETRY/EPIDEMIOLOGY	29	29	0	14	14	0
BIOPHYSICS	47	47	0	22	22	0
BOTANY	211	211	0	27	27	0
CELL BIOLOGY	199	199	0	22	22	0
ECOLOGY	39	39	0	10	10	0
ENTOMOLOGY/PARASITOLOGY	115	115	0	35	35	0
GENETICS	162	162	0	13	13	0
MICROBIOLOGY	664	664	0	38	38	0
NUTRITION	74	74	0	12	12	0
PATHOLOGY	209	209	0	23	23	0
PHARMACOLOGY	391	391	0	45	45	0
PHYSIOLOGY	444	444	0	80	80	0
ZOOLOGY	162	162	0	18	18	0
BIOSCIENCES, N.E.C.	30	30	0	0	0	0
HEALTH SCIENCES	2,215	2,212	3	345	345	0
ANESTHESIOLOGY	28	28	0	2	2	0
CANCER/ONCOLOGY	101	101	0	11	11	0
CARDIOLOGY	190	190	0	19	19	0
DENTISTRY	49	49	0	4	4	0
ENDOCRINOLOGY	102	102	0	10	10	0
GASTROENTEROLOGY	52	52	0	5	5	0
HEMATOLOGY	76	76	0	1	1	0
NEUROLOGY	147	147	0	18	18	0
NURSING	9	7	2	2	2	0
OBSTETRICS/GYNECOLOGY	48	48	0	0	0	0
OPHTHALMOLOGY	40	40	0	2	2	0
OTORHINOLARYNGOLOGY	19	19	0	7	7	0
PEDIATRICS	153	153	0	2	2	0
PHARMACEUTICAL SCIENCES	230	230	0	30	30	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	63	63	0	17	17	0
PSYCHIATRY	107	107	0	125	125	0
PULMONARY DISEASE	77	77	0	1	1	0
RADIOLOGY	53	53	0	18	18	0
SPEECH PATHOLOGY/AUDIOLOGY	6	5	1	13	13	0
SURGERY	131	131	0	11	11	0
VETERINARY SCIENCES	35	35	0	9	9	0
CLINICAL MEDICINE, N.E.C.	430	430	0	37	37	0
HEALTH RELATED, N.E.C.	69	69	0	1	1	0
PSYCHOLOGY	261	261	0	51	51	0
SOCIAL SCIENCES	158	157	1	73	71	2
AGRICULTURAL ECONOMICS	5	5	0	23	22	1
ANTHROPOLOGY	21	20	1	5	4	1
ECONOMICS (EXCEPT AGRICULTURAL)	12	12	0	11	11	0
GEOGRAPHY	22	22	0	4	4	0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	0	0	0	0
LINGUISTICS	19	19	0	1	1	0
POLITICAL SCIENCE	7	7	0	1	1	0
SOCIOLOGY	55	55	0	20	20	0
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	16	16	0	8	8	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-33. -- SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NONFACULTY DOCTORAL RESEARCH STAFF IN PRIVATE GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1981

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	8,865	8,860	5	1,546	1,543	3
ENGINEERING	513	513	0	220	219	1
AEROSPACE	6	6	0	7	7	0
AGRICULTURAL	3	3	0	1	1	0
BIOMEDICAL	18	18	0	2	2	0
CHEMICAL	64	64	0	13	13	0
CIVIL	70	70	0	7	7	0
ELECTRICAL	75	75	0	38	38	0
ENGINEERING SCIENCE	78	78	0	32	31	1
INDUSTRIAL	1	1	0	1	1	0
MECHANICAL	67	67	0	75	75	0
METALLURGICAL/MATERIALS	105	105	0	23	23	0
MINING	9	9	0	0	0	0
NUCLEAR	5	5	0	4	4	0
PETROLEUM	2	2	0	0	0	0
ENGINEERING, N.E.C.	10	10	0	17	17	0
PHYSICAL SCIENCES	1,697	1,692	5	198	198	0
ASTRONOMY	65	65	0	26	26	0
CHEMISTRY	1,070	1,068	2	108	108	0
PHYSICS	547	544	3	64	64	0
PHYSICAL SCIENCES, N.E.C.	15	15	0	0	0	0
ENVIRONMENTAL SCIENCES	118	118	0	50	50	0
ATMOSPHERIC SCIENCES	5	5	0	3	3	0
GEOSCIENCES	93	93	0	43	43	0
OCEANOGRAPHY	18	18	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	2	2	0	4	4	0
MATHEMATICAL/COMPUTER SCIENCES	87	87	0	120	120	0
COMPUTER SCIENCE	33	33	0	80	80	0
MATHEMATICS AND APPLIED MATHEMATICS	48	48	0	33	33	0
STATISTICS	6	6	0	7	7	0
LIFE SCIENCES	6,063	6,063	0	701	700	1
AGRICULTURAL SCIENCES	12	12	0	9	9	0
BIOLOGICAL SCIENCES	3,257	3,257	0	413	412	1
ANATOMY	118	118	0	21	21	0
BIOCHEMISTRY	694	694	0	94	94	0
BIOLOGY	444	444	0	132	131	1
BIOMETRY/EPIDEMIOLOGY	33	33	0	7	7	0
BIOPHYSICS	68	68	0	22	22	0
BOTANY	29	29	0	2	2	0
CELL BIOLOGY	302	302	0	15	15	0
ECOLOGY	5	5	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	12	12	0	0	0	0
GENETICS	128	128	0	8	8	0
MICROBIOLOGY	322	322	0	18	18	0
NUTRITION	97	97	0	14	14	0
PATHOLOGY	261	261	0	13	13	0
PHARMACOLOGY	358	358	0	25	25	0
PHYSIOLOGY	310	310	0	35	35	0
ZOOLOGY	16	16	0	0	0	0
BIOSCIENCES, N.E.C.	60	60	0	7	7	0
HEALTH SCIENCES	2,794	2,794	0	279	279	0
ANESTHESIOLOGY	38	38	0	2	2	0
CANCER/ONCOLOGY	18	18	0	0	0	0
CARDIOLOGY	153	153	0	11	11	0
DENTISTRY	112	112	0	0	0	0
ENDOCRINOLOGY	98	98	0	5	5	0
GASTROENTEROLOGY	62	62	0	3	3	0
HEMATOLOGY	87	87	0	3	3	0
NEUROLOGY	220	220	0	26	26	0
NURSING	1	1	0	0	0	0
OBSTETRICS/GYNECOLOGY	65	65	0	3	3	0
OPHTHALMOLOGY	104	104	0	5	5	0
OTORHINOLARYNGOLOGY	22	22	0	4	4	0
PEDIATRICS	406	406	0	33	33	0
PHARMACEUTICAL SCIENCES	13	13	0	1	1	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	72	72	0	16	16	0
PSYCHIATRY	185	185	0	16	16	0
PULMONARY DISEASE	50	50	0	7	7	0
RADIOLOGY	112	112	0	53	53	0
SPEECH PATHOLOGY/AUDIOLOGY	11	11	0	0	0	0
SURGERY	166	166	0	25	25	0
VETERINARY SCIENCES	11	11	0	0	0	0
CLINICAL MEDICINE, N.E.C.	743	743	0	62	62	0
HEALTH RELATED, N.E.C.	45	45	0	4	4	0
PSYCHOLOGY	212	212	0	106	105	1
SOCIAL SCIENCES	175	175	0	151	151	0
AGRICULTURAL ECONOMICS	1	1	0	0	0	0
ANTHROPOLOGY	10	10	0	16	16	0
ECONOMICS (EXCEPT AGRICULTURAL)	17	17	0	62	62	0
GEOGRAPHY	1	1	0	2	2	0
HISTORY AND PHILOSOPHY OF SCIENCE	20	20	0	0	0	0
LINGUISTICS	28	28	0	8	8	0
POLITICAL SCIENCE	40	40	0	35	35	0
SOCIOLOGY	35	35	0	28	28	0
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	23	23	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-34. — MALE SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NONFACULTY DOCTORAL RESEARCH STAFF IN ALL GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1981

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	15,590	15,563	27	2,811	2,805	6
ENGINEERING	952	952	0	476	473	3
AEROSPACE	12	12	0	8	8	0
AGRICULTURAL	9	9	0	2	2	0
BIOMEDICAL	28	28	0	3	3	0
CHEMICAL	162	162	0	70	70	0
CIVIL	95	95	0	26	26	0
ELECTRICAL	179	179	0	78	76	2
ENGINEERING SCIENCE	84	84	0	33	32	1
INDUSTRIAL	10	10	0	2	2	0
MECHANICAL	115	115	0	111	111	0
METALLURGICAL/MATERIALS	178	178	0	90	90	0
MINING	11	11	0	0	0	0
NUCLEAR	22	22	0	23	23	0
PETROLEUM	2	2	0	0	0	0
ENGINEERING, N.E.C.	45	45	0	30	30	0
PHYSICAL SCIENCES	3,991	3,978	13	535	534	1
ASTRONOMY	122	122	0	61	61	0
CHEMISTRY	2,503	2,496	7	222	221	1
PHYSICS	1,351	1,345	6	252	252	0
PHYSICAL SCIENCES, N.E.C.	15	15	0	0	0	0
ENVIRONMENTAL SCIENCES	312	306	6	130	130	0
ATMOSPHERIC SCIENCES	42	42	0	32	32	0
GEOSCIENCES	198	194	4	60	60	0
OCEANOGRAPHY	59	58	1	28	28	0
ENVIRONMENTAL SCIENCES, N.E.C.	13	12	1	10	10	0
MATHEMATICAL/COMPUTER SCIENCES	129	128	1	163	163	0
COMPUTER SCIENCE	40	39	1	77	77	0
MATHEMATICS AND APPLIED MATHEMATICS	79	79	0	57	57	0
STATISTICS	10	10	0	29	29	0
LIFE SCIENCES	9,690	9,683	7	1,225	1,224	1
AGRICULTURAL SCIENCES	254	254	0	56	56	0
BIOLOGICAL SCIENCES	5,585	5,580	5	736	735	1
ANATOMY	182	182	0	42	42	0
BIOCHEMISTRY	1,284	1,284	0	139	139	0
BIOLOGY	585	580	5	152	151	1
BIOMETRY/EPIDEMIOLOGY	40	40	0	16	16	0
BIOPHYSICS	99	99	0	35	35	0
BOTANY	178	178	0	20	20	0
CELL BIOLOGY	357	357	0	28	28	0
ECOLOGY	33	33	0	10	10	0
ENTOMOLOGY/PARASITOLOGY	107	107	0	28	28	0
GENETICS	185	185	0	11	11	0
MICROBIOLOGY	707	707	0	37	37	0
NUTRITION	121	121	0	21	21	0
PATHOLOGY	368	368	0	32	32	0
PHARMACOLOGY	592	592	0	61	61	0
PHYSIOLOGY	572	572	0	88	88	0
ZOOLOGY	110	110	0	9	9	0
BIOSCIENCES, N.E.C.	65	65	0	7	7	0
HEALTH SCIENCES	3,851	3,849	2	433	433	0
ANESTHESIOLOGY	50	50	0	4	4	0
CANCER/ONCOLOGY	88	88	0	11	11	0
CARDIOLOGY	297	297	0	24	24	0
DENTISTRY	136	136	0	4	4	0
ENDOCRINOLOGY	162	162	0	14	14	0
GASTROENTEROLOGY	93	93	0	6	6	0
HEMATOLOGY	131	131	0	1	1	0
NEUROLOGY	298	298	0	38	38	0
NURSING	8	6	2	2	2	0
OBSTETRICS/GYNECOLOGY	75	75	0	2	2	0
OPHTHALMOLOGY	111	111	0	4	4	0
OTORHINOLARYNGOLOGY	35	35	0	9	9	0
PEDIATRICS	364	364	0	24	24	0
PHARMACEUTICAL SCIENCES	207	207	0	24	24	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	88	88	0	28	28	0
PSYCHIATRY	180	180	0	76	76	0
PULMONARY DISEASE	118	118	0	8	8	0
RADIOLOGY	123	123	0	47	47	0
SPEECH PATHOLOGY/AUDIOLOGY	9	9	0	9	9	0
SURGERY	277	277	0	26	26	0
VETERINARY SCIENCES	25	25	0	3	3	0
CLINICAL MEDICINE, N.E.C.	893	893	0	66	66	0
HEALTH RELATED, N.E.C.	83	83	0	3	3	0
PSYCHOLOGY	291	291	0	100	99	1
SOCIAL SCIENCES	225	225	0	182	182	0
AGRICULTURAL ECONOMICS	6	6	0	20	20	0
ANTHROPOLOGY	16	16	0	13	13	0
ECONOMICS (EXCEPT AGRICULTURAL)	21	21	0	70	70	0
GEOGRAPHY	16	16	0	5	5	0
HISTORY AND PHILOSOPHY OF SCIENCE	15	15	0	0	0	0
LINGUISTICS	32	32	0	7	7	0
POLITICAL SCIENCE	38	38	0	25	25	0
SOCIOLOGY	54	54	0	36	36	0
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	27	27	0	6	6	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-35. -- FEMALE SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NONFACULTY DOCTORAL RESEARCH STAFF IN ALL GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1981

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	4,100	4,092	8	749	747	2
ENGINEERING	80	79	1	33	33	0
AEROSPACE	2	2	0	0	0	0
AGRICULTURAL	0	0	0	1	1	0
BIOMEDICAL	6	6	0	1	1	0
CHEMICAL	12	12	0	5	5	0
CIVIL	8	8	0	7	7	0
ELECTRICAL	10	10	0	5	5	0
ENGINEERING SCIENCE	3	3	0	3	3	0
INDUSTRIAL	3	3	0	2	2	0
MECHANICAL	8	8	0	2	2	0
METALLURGICAL/MATERIALS	16	15	1	6	6	0
MINING	5	5	0	0	0	0
NUCLEAR	4	4	0	1	1	0
PETROLEUM	0	0	0	0	0	0
ENGINEERING, N.E.C.	3	3	0	0	0	0
PHYSICAL SCIENCES	476	474	2	85	85	0
ASTRONOMY	10	10	0	5	5	0
CHEMISTRY	367	365	2	68	68	0
PHYSICS	99	99	0	12	12	0
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	34	33	1	12	12	0
ATMOSPHERIC SCIENCES	4	4	0	0	0	0
GEOSCIENCES	21	20	1	6	6	0
OCEANOGRAPHY	9	9	0	5	5	0
ENVIRONMENTAL SCIENCES, N.E.C.	0	0	0	1	1	0
MATHEMATICAL/COMPUTER SCIENCES	19	19	0	6	6	0
COMPUTER SCIENCE	9	9	0	4	4	0
MATHEMATICS AND APPLIED MATHEMATICS	9	9	0	2	2	0
STATISTICS	1	1	0	0	0	0
LIFE SCIENCES	3,201	3,198	3	514	514	0
AGRICULTURAL SCIENCES	36	36	0	14	14	0
BIOLOGICAL SCIENCES	2,007	2,005	2	309	309	0
ANATOMY	76	76	0	23	23	0
BIOCHEMISTRY	415	415	0	73	73	0
BIOLOGY	273	271	2	91	91	0
BIOMETRY/EPIDEMIOLOGY	22	22	0	5	5	0
BIOPHYSICS	16	16	0	9	9	0
BOTANY	62	62	0	9	9	0
CELL BIOLOGY	144	144	0	9	9	0
ECOLOGY	11	11	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	20	20	0	7	7	0
GENETICS	105	105	0	10	10	0
MICROBIOLOGY	279	279	0	19	19	0
NUTRITION	50	50	0	5	5	0
PATHOLOGY	102	102	0	4	4	0
PHARMACOLOGY	157	157	0	9	9	0
PHYSIOLOGY	182	182	0	27	27	0
ZOOLOGY	68	68	0	9	9	0
BIOSCIENCES, N.E.C.	25	25	0	0	0	0
HEALTH SCIENCES	1,158	1,157	1	191	191	0
ANESTHESIOLOGY	16	16	0	0	0	0
CANCER/ONCOLOGY	31	31	0	0	0	0
CARDIOLOGY	46	46	0	6	6	0
DENTISTRY	25	25	0	0	0	0
ENDOCRINOLOGY	38	38	0	1	1	0
GASTROENTEROLOGY	21	21	0	2	2	0
HEMATOLOGY	32	32	0	3	3	0
NEUROLOGY	69	69	0	6	6	0
NURSING	2	2	0	0	0	0
OBSTETRICS/GYNECOLOGY	38	38	0	1	1	0
OPHTHALMOLOGY	33	33	0	3	3	0
OTORHINOLARYNGOLOGY	6	6	0	2	2	0
PEDIATRICS	195	195	0	11	11	0
PHARMACEUTICAL SCIENCES	36	36	0	7	7	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	47	47	0	5	5	0
PSYCHIATRY	112	112	0	65	65	0
PULMONARY DISEASE	9	9	0	0	0	0
RADIOLOGY	42	42	0	24	24	0
SPEECH PATHOLOGY/AUDIOLOGY	8	7	1	4	4	0
SURGERY	20	20	0	10	10	0
VETERINARY SCIENCES	21	21	0	6	6	0
CLINICAL MEDICINE, N.E.C.	280	280	0	33	33	0
HEALTH RELATED, N.E.C.	31	31	0	2	2	0
PSYCHOLOGY	182	182	0	57	57	0
SOCIAL SCIENCES	108	107	1	42	40	2
AGRICULTURAL ECONOMICS	0	0	0	3	2	1
ANTHROPOLOGY	15	14	1	8	7	1
ECONOMICS (EXCEPT AGRICULTURAL)	8	8	0	3	3	0
GEOGRAPHY	7	7	0	1	1	0
HISTORY AND PHILOSOPHY OF SCIENCE	6	6	0	0	0	0
LINGUISTICS	15	15	0	2	2	0
POLITICAL SCIENCE	9	9	0	11	11	0
SOCIOLOGY	36	36	0	12	12	0
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	12	12	0	2	2	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-1. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1975-77 AND 1979-81 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	337,745	344,405	358,467	373,309	383,205	392,034	2.6	2.3	2.5
ENGINEERING	68,510	68,144	70,629	74,050	77,173	82,977	2.4	7.5	3.2
AEROSPACE	1,670	1,477	1,518	1,481	1,737	1,849	.8	6.4	1.7
AGRICULTURAL	599	651	718	753	752	812	4.7	8.0	5.2
BIOMEDICAL	915	934	891	1,038	1,001	1,047	1.8	4.6	2.3
CHEMICAL	5,185	5,334	5,355	5,764	6,195	6,693	3.6	8.0	4.3
CIVIL	11,924	11,219	11,613	11,829	12,063	12,464	.2	3.3	.7
ELECTRICAL	16,320	15,926	17,406	17,789	19,227	20,160	3.3	4.9	3.6
ENGINEERING SCIENCE	1,712	1,774	1,781	1,739	1,861	2,015	1.7	8.3	2.8
INDUSTRIAL	11,663	11,739	11,478	11,984	11,421	12,079	-.4	5.8	.6
MECHANICAL	8,601	8,374	8,783	9,337	9,975	10,815	3.0	8.4	3.9
METALLURGICAL/MATERIALS	2,339	2,359	2,537	2,739	2,886	3,106	4.3	7.6	4.8
MINING	507	642	620	522	533	588	1.0	10.3	2.5
NUCLEAR	1,636	1,600	1,491	1,356	1,282	1,321	-4.8	3.0	-3.5
PETROLEUM	302	376	379	424	503	521	10.7	3.6	9.5
ENGINEERING, N.E.C.	5,137	5,739	6,059	7,295	7,737	9,507	8.5	22.9	10.8
PHYSICAL SCIENCES	26,344	26,663	26,900	26,696	26,970	27,351	.5	1.4	.6
ASTRONOMY	711	681	644	638	628	597	-2.5	-4.9	-2.9
CHEMISTRY	15,287	15,651	16,015	16,099	16,220	16,380	1.2	1.0	1.2
PHYSICS	10,102	10,102	9,974	9,703	9,916	10,184	-.4	2.7	.1
PHYSICAL SCIENCES, N.E.C.	244	229	267	256	206	190	-3.3	-7.8	-4.1
ENVIRONMENTAL SCIENCES	12,132	12,603	13,113	13,326	13,666	14,099	2.4	3.2	2.5
ATMOSPHERIC SCIENCES	937	930	929	892	923	914	-.3	-1.0	-.4
GEOSCIENCES	7,122	7,523	7,815	8,315	8,470	8,691	3.5	2.6	3.4
OCEANOGRAPHY	1,737	1,775	1,979	1,888	2,018	2,097	3.0	3.9	3.2
ENVIRONMENTAL SCIENCES, N.E.C.	2,336	2,375	2,390	2,231	2,255	2,397	-.7	6.3	.4
MATHEMATICAL/COMPUTER SCIENCES	25,333	25,668	25,122	26,707	28,889	32,262	2.7	11.7	4.1
COMPUTER SCIENCE	8,389	8,965	9,453	12,107	14,008	16,915	10.8	20.8	12.4
MATHEMATICS AND APPLIED MATHEMATICS	14,960	14,671	13,665	12,651	12,846	13,383	-3.0	4.2	-1.8
STATISTICS	1,984	2,032	2,004	1,949	2,035	1,964	.5	-3.5	-.2
LIFE SCIENCES	83,441	88,322	95,889	100,137	102,747	103,481	4.3	.7	3.7
AGRICULTURAL SCIENCES	10,550	11,137	11,540	12,124	12,319	12,071	3.1	-2.0	2.3
BIOLOGICAL SCIENCES	46,286	47,810	49,373	48,230	47,533	46,420	.5	-2.3	*
ANATOMY	1,074	1,112	1,150	1,098	1,060	1,040	-.3	-1.9	-.5
BIOCHEMISTRY	3,792	3,823	3,873	3,960	3,909	3,897	.6	-.3	.5
BIOLOGY	16,245	17,085	17,174	15,952	15,154	14,376	-1.4	-5.1	-2.0
BIOMETRY/EPIDEMIOLOGY	871	884	1,070	1,133	1,265	1,207	7.7	-4.6	5.6
BIOPHYSICS	728	624	599	564	522	500	-6.4	-4.2	-6.1
BOTANY	3,518	3,800	3,865	3,601	3,583	3,434	.4	-4.2	-.4
CELL BIOLOGY	636	595	658	706	799	871	4.7	9.0	5.4
ECOLOGY	789	885	1,020	1,017	1,131	1,056	7.5	-6.6	5.0
ENTOMOLOGY/PARASITOLOGY	1,557	1,590	1,592	1,681	1,703	1,654	1.8	-2.9	1.0
GENETICS	867	883	1,006	950	948	922	1.8	-2.7	1.0
MICROBIOLOGY	4,032	4,196	4,368	3,999	3,988	3,883	-.2	-2.6	-.6
NUTRITION	2,826	3,121	3,800	3,895	4,067	4,305	7.6	5.9	7.3
PATHOLOGY	1,543	1,608	1,699	1,862	1,864	1,668	3.9	-10.5	1.3
PHARMACOLOGY	1,585	1,689	1,777	1,989	2,001	1,998	4.8	-.1	3.9
PHYSIOLOGY	2,273	2,187	2,072	2,134	2,054	2,098	-2.0	2.1	-1.3
ZOOLOGY	3,543	3,302	3,070	2,899	2,686	2,642	-5.4	-1.6	-4.8
BIOSCIENCES, N.E.C.	407	426	580	790	799	869	14.4	8.8	13.5
HEALTH SCIENCES	26,605	29,375	34,976	39,783	42,895	44,990	10.0	4.9	9.2
ANESTHESIOLOGY	55	5	5	20	17	20	-20.9	17.6	-15.5
CANCER/ONCOLOGY	59	47	51	47	46	46	-4.9	.0	-4.1
CARDIOLOGY	23	2	5	3	38	38	10.6	.0	8.7
DENTISTRY	1,255	1,174	1,263	1,325	1,287	1,297	.5	.8	.6
ENDOCRINOLOGY	42	37	38	50	53	51	4.8	-3.8	3.3
GASTROENTEROLOGY	15	8	8	0	0	4	-100.0	**	-19.8
HEMATOLOGY	3	4	18	20	16	9	39.8	-43.8	20.1
NEUROLOGY	333	312	323	382	387	333	3.1	-14.0	.0
NURSING	5,307	7,255	10,943	12,796	13,877	15,834	21.2	14.1	20.0
OBSTETRICS/GYNECOLOGY	53	59	27	36	6	13	-35.3	116.7	-20.9
OPHTHALMOLOGY	30	13	16	6	16	22	-11.8	37.5	-5.0
OTORHINOLARYNGOLOGY	54	68	57	26	18	15	-19.7	-16.7	-19.2
PEDIATRICS	183	215	152	91	116	121	-8.7	4.3	-6.7
PHARMACEUTICAL SCIENCES	2,245	2,217	2,515	2,487	2,496	2,616	2.1	4.8	2.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,824	4,444	4,621	6,406	7,074	7,160	13.1	1.2	11.0
PSYCHIATRY	176	147	150	133	63	106	-18.6	68.3	-8.1
PULMONARY DISEASE	7	0	3	1	15	9	16.5	-40.0	4.3
RADIOLOGY	377	282	307	280	280	275	-5.8	-1.8	-5.1
SPEECH PATHOLOGY/AUDIOLOGY	7,539	7,725	8,263	8,398	8,735	8,696	3.0	-.4	2.4
SURGERY	124	117	99	52	66	75	-11.8	13.6	-8.0
VETERINARY SCIENCES	683	749	828	920	908	927	5.9	2.1	5.2
CLINICAL MEDICINE, N.E.C.	279	302	491	585	793	738	23.2	-6.9	17.6
HEALTH RELATED, N.E.C.	3,939	4,193	4,793	5,719	6,588	6,585	10.8	*	8.9
PSYCHOLOGY	36,175	37,389	38,575	39,729	40,574	40,756	2.3	.4	2.0
SOCIAL SCIENCES	85,810	85,616	88,239	92,664	93,186	91,108	1.7	-2.2	1.0
AGRICULTURAL ECONOMICS	2,105	2,152	2,198	2,199	2,337	2,258	2.1	-3.4	1.2
ANTHROPOLOGY	6,632	6,622	6,728	6,343	6,322	6,115	-1.0	-3.3	-1.3
ECONOMICS (EXCEPT AGRICULTURAL)	11,995	11,829	11,983	12,040	13,067	13,271	1.7	1.6	1.7
GEOGRAPHY	3,609	3,803	3,476	3,112	3,272	3,240	-1.9	-1.0	-1.8
HISTORY AND PHILOSOPHY OF SCIENCE	303	322	300	265	280	248	-1.6	-11.4	-3.3
LINGUISTICS	2,653	2,744	2,555	2,948	2,883	3,035	1.7	5.3	2.3
POLITICAL SCIENCE	26,515	26,545	27,848	31,260	31,676	31,122	3.6	-1.7	2.7
SOCIOLOGY	9,799	9,615	9,199	8,558	8,386	8,118	-3.1	-3.2	-3.1
SOCIOLOGY/ANTHROPOLOGY	1,611	1,297	1,267	1,143	1,112	1,056	-7.1	-5.0	-6.8
SOCIAL SCIENCES, N.E.C.	20,588	20,687	22,685	24,796	23,851	22,645	3.0	-5.1	1.6

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-2. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-77 AND 1979-81 1/

DIVISION AND STATE	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL INSTITUTIONS	337,745	344,405	358,467	373,309	383,205	392,034	2.6	2.3	2.5
NEW ENGLAND	24,265	25,060	26,379	28,879	30,887	30,559	4.9	-1.1	3.9
CONNECTICUT	4,866	5,090	5,476	6,392	6,781	6,650	6.9	-1.9	5.3
MAINE	446	512	469	475	467	395	.9	-15.4	-2.0
MASSACHUSETTS	15,278	15,888	16,792	18,284	19,864	20,304	5.4	2.2	4.9
NEW HAMPSHIRE	731	743	775	744	819	771	2.3	-5.9	.9
RHODE ISLAND	1,880	1,746	1,753	1,870	1,823	1,868	-.6	2.5	-.1
VERMONT	1,064	1,081	1,114	1,114	1,133	571	1.3	-49.6	-9.9
MIDDLE ATLANTIC	63,693	62,201	64,924	65,951	68,094	72,915	1.3	7.1	2.3
NEW JERSEY	11,049	10,227	10,280	10,316	10,242	10,487	-1.5	2.4	-.9
NEW YORK	38,207	36,031	38,554	39,268	40,054	43,173	.9	7.8	2.1
PENNSYLVANIA	14,437	15,943	16,090	16,367	17,798	19,255	4.3	8.2	4.9
EAST NORTH CENTRAL	62,023	62,032	62,894	64,162	66,353	66,268	1.4	-.1	1.1
ILLINOIS	17,574	17,384	18,056	18,905	19,569	19,512	2.2	-.3	1.8
INDIANA	7,263	7,559	7,677	7,494	7,735	8,091	1.3	4.6	1.8
MICHIGAN	13,333	12,989	13,067	13,476	13,352	12,871	*	-3.6	-.6
OHIO	14,810	15,466	15,650	16,127	16,893	17,020	2.7	.8	2.3
WISCONSIN	9,043	8,634	8,444	8,160	8,804	8,774	-.5	-.3	-.5
WEST NORTH CENTRAL	22,705	23,536	24,144	24,698	25,649	25,472	2.5	-.7	1.9
IOWA	3,900	4,251	4,281	4,611	4,696	4,536	3.8	-3.4	2.5
KANSAS	4,224	4,449	4,758	4,854	5,038	5,106	3.6	1.3	3.2
MINNESOTA	5,658	5,361	5,186	5,619	5,686	5,702	.1	.3	.1
MISSOURI	6,152	6,414	6,397	6,102	6,462	6,204	1.0	-4.0	.1
NEBRASKA	1,478	1,739	2,126	2,122	2,159	2,339	7.9	8.3	8.0
NORTH DAKOTA	742	809	836	776	907	913	4.1	.7	3.5
SOUTH DAKOTA	551	513	560	614	701	672	4.9	-4.1	3.4
SOUTH ATLANTIC	46,268	48,031	49,886	53,516	54,409	56,475	3.3	3.8	3.4
DELAWARE	908	902	884	1,031	1,084	1,138	3.6	5.0	3.8
DISTRICT OF COLUMBIA	7,410	7,704	9,149	9,153	8,925	9,760	3.8	9.4	4.7
FLORIDA	8,582	9,060	9,016	10,458	10,799	11,338	4.7	5.0	4.8
GEORGIA	5,405	5,509	5,504	5,802	6,103	6,096	2.5	-.1	2.0
MARYLAND	6,976	6,930	6,839	7,664	7,104	7,447	.4	4.8	1.1
NORTH CAROLINA	6,426	6,448	6,660	7,093	7,380	7,307	2.8	-1.0	2.2
SOUTH CAROLINA	2,675	2,851	2,945	2,930	2,886	2,960	1.5	2.6	1.7
VIRGINIA	5,721	6,279	6,510	7,029	7,419	7,478	5.3	.8	4.6
WEST VIRGINIA	2,165	2,348	2,379	2,356	2,709	2,951	4.6	8.9	5.3
EAST SOUTH CENTRAL	12,837	13,810	14,668	15,550	15,050	14,936	3.2	-.8	2.6
ALABAMA	2,602	3,098	3,531	4,073	3,865	3,913	8.2	1.2	7.0
KENTUCKY	2,704	2,766	3,065	3,253	3,212	3,369	3.5	4.9	3.7
MISSISSIPPI	1,996	2,173	2,190	2,185	2,130	2,041	1.3	-4.2	.4
TENNESSEE	5,535	5,773	5,882	6,039	5,843	5,613	1.1	-3.9	.2
WEST SOUTH CENTRAL	26,451	28,104	30,454	31,849	32,487	32,764	4.2	.9	3.6
ARKANSAS	1,108	1,346	1,391	1,488	1,495	1,642	6.2	9.8	6.8
LOUISIANA	3,126	3,242	3,431	3,807	3,874	4,299	4.4	11.0	5.5
OKLAHOMA	3,508	3,400	3,804	3,865	4,004	3,581	2.7	-10.6	.3
TEXAS	18,709	20,116	21,828	22,689	23,114	23,242	4.3	.6	3.7
MOUNTAIN	20,737	20,294	20,339	21,106	21,639	22,183	.9	2.5	1.1
ARIZONA	4,791	4,707	4,729	5,027	5,228	5,593	1.8	7.0	2.6
COLORADO	7,715	7,155	6,839	6,916	6,928	6,934	-2.1	.1	-1.8
IDAHO	841	975	1,192	951	968	960	2.9	-.8	2.2
MONTANA	774	799	784	786	871	851	2.4	-2.3	1.6
NEVADA	616	698	718	686	639	755	.7	18.2	3.4
NEW MEXICO	2,101	2,051	2,033	2,423	2,463	2,623	3.2	6.5	3.8
UTAH	3,218	3,214	3,369	3,666	3,882	3,737	3.8	-3.7	2.5
WYOMING	681	695	675	651	660	730	-.6	10.6	1.2
PACIFIC	57,300	59,901	63,102	66,018	66,633	68,442	3.1	2.7	3.0
ALASKA	220	287	434	456	492	538	17.5	9.3	16.1
CALIFORNIA	47,241	48,806	51,273	53,541	53,637	55,807	2.6	4.0	2.8
HAWAII	1,484	1,496	1,543	1,453	2,004	1,967	6.2	-1.8	4.8
OREGON	2,980	3,144	3,276	3,429	3,386	3,424	2.6	1.1	2.3
WASHINGTON	5,375	6,168	6,576	7,139	7,114	6,706	5.8	-5.7	3.8
OUTLYING AREAS	1,466	1,436	1,677	1,580	2,004	2,020	6.5	.8	5.5

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-3. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1975-77 AND 1979-81 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	226,694	230,913	236,179	242,391	249,169	253,428	1.9	1.7	1.9
ENGINEERING	37,919	37,316	38,075	40,974	43,607	46,661	2.8	7.0	3.5
AEROSPACE	1,245	1,165	1,187	1,152	1,327	1,449	1.3	9.2	2.6
AGRICULTURAL	512	538	625	652	636	677	4.4	6.4	4.8
BIOMEDICAL	786	748	710	839	800	862	.4	7.7	1.6
CHEMICAL	3,643	3,807	4,016	4,364	4,630	5,143	4.9	11.1	5.9
CIVIL	6,783	6,298	6,492	6,767	6,990	7,320	.6	4.7	1.3
ELECTRICAL	8,278	8,147	8,528	9,039	9,963	10,401	3.8	4.4	3.9
ENGINEERING SCIENCE	1,113	1,145	1,134	1,106	1,186	1,232	1.3	3.9	1.7
INDUSTRIAL	4,152	3,710	3,555	3,961	3,949	3,947	-1.0	-.1	-.8
MECHANICAL	4,931	4,980	4,944	5,514	5,928	6,468	3.8	9.1	4.6
METALLURGICAL/MATERIALS	1,776	1,847	1,933	2,120	2,243	2,440	4.8	8.8	5.4
MINING	411	507	487	400	396	470	-.7	18.7	2.3
NUCLEAR	1,261	1,222	1,159	1,105	1,071	1,056	-3.2	-1.4	-2.9
PETROLEUM	228	323	301	337	373	393	10.3	5.4	9.5
ENGINEERING, N.E.C.	2,800	2,879	3,004	3,618	4,115	4,803	8.0	16.7	9.4
PHYSICAL SCIENCES	21,959	22,294	22,568	22,526	22,937	23,354	.9	1.8	1.0
ASTRONOMY	659	621	599	600	593	565	-2.1	-4.7	-2.5
CHEMISTRY	12,416	12,816	13,129	13,359	13,578	13,735	1.8	1.2	1.7
PHYSICS	8,737	8,730	8,707	8,472	8,672	8,962	-.1	3.3	.4
PHYSICAL SCIENCES, N.E.C.	147	127	133	95	94	92	-8.6	-2.1	-7.5
ENVIRONMENTAL SCIENCES	9,551	9,898	10,151	10,371	10,647	10,880	2.2	2.2	2.2
ATMOSPHERIC SCIENCES	832	822	811	779	789	772	-1.1	-2.2	-1.2
GEOSCIENCES	5,746	6,122	6,298	6,606	6,872	6,945	3.6	1.1	3.2
OCEANOGRAPHY	1,441	1,503	1,562	1,531	1,593	1,637	2.0	2.8	2.1
ENVIRONMENTAL SCIENCES, N.E.C.	1,532	1,451	1,480	1,455	1,393	1,526	-1.9	9.5	-.1
MATHEMATICAL/COMPUTER SCIENCES	15,168	15,661	14,934	15,489	16,456	17,726	1.6	7.7	2.6
COMPUTER SCIENCE	4,465	4,827	4,693	5,935	6,711	7,737	8.5	15.3	9.6
MATHEMATICS AND APPLIED MATHEMATICS	9,249	9,337	8,759	8,136	8,234	8,460	-2.3	2.7	-1.5
STATISTICS	1,454	1,497	1,482	1,418	1,511	1,529	.8	1.2	.8
LIFE SCIENCES	63,541	66,402	69,005	71,275	72,500	72,536	2.7	*	2.2
AGRICULTURAL SCIENCES	8,737	9,307	9,572	9,828	10,016	10,048	2.8	.3	2.4
BIOLOGICAL SCIENCES	36,820	37,831	38,302	37,881	37,535	37,138	.4	-1.1	.1
ANATOMY	983	1,029	1,038	1,020	984	958	*	-2.6	-.4
BIOCHEMISTRY	3,422	3,499	3,573	3,602	3,623	3,619	1.1	-.1	.9
BIOLOGY	10,616	11,175	10,864	10,425	9,880	9,566	-1.4	-3.2	-1.7
BIOMETRY/EPIDEMIOLOGY	767	763	899	971	1,049	1,009	6.5	-3.8	4.7
BIOPHYSICS	633	599	576	533	506	487	-4.4	-3.8	-4.3
BOTANY	3,083	3,349	3,448	3,238	3,168	2,992	.5	-5.6	-.5
CELL BIOLOGY	615	565	623	690	780	854	4.9	9.5	5.6
ECOLOGY	728	789	927	829	947	925	5.4	-2.3	4.1
ENTOMOLOGY/PARASITOLOGY	1,378	1,412	1,379	1,455	1,516	1,456	1.9	-4.0	.9
GENETICS	778	793	919	855	869	858	2.2	-1.3	1.6
MICROBIOLOGY	3,489	3,583	3,676	3,387	3,477	3,392	-.1	-2.4	-.5
NUTRITION	2,391	2,542	2,843	2,998	2,991	3,158	4.6	5.6	4.7
PATHOLOGY	1,143	1,086	1,078	1,245	1,218	1,193	1.3	-2.1	.7
PHARMACOLOGY	1,488	1,574	1,654	1,839	1,874	1,891	4.7	.9	4.1
PHYSIOLOGY	2,033	1,942	1,880	1,849	1,815	1,891	-2.2	4.2	-1.2
ZOOLOGY	3,072	2,883	2,631	2,433	2,290	2,268	-5.7	-1.0	-4.9
BIOSCIENCES, N.E.C.	201	248	294	512	548	621	22.2	13.3	20.7
HEALTH SCIENCES	17,984	19,264	21,131	23,566	24,949	25,350	6.8	1.6	5.9
ANESTHESIOLOGY	55	5	3	18	13	16	-25.1	23.1	-18.6
CANCER/ONCOLOGY	55	42	51	45	44	44	-4.4	.0	-3.7
CARDIOLOGY	22	0	3	3	35	30	9.7	-14.3	5.3
DENTISTRY	1,060	990	1,024	1,153	1,094	1,017	.6	-7.0	-.7
ENDOCRINOLOGY	42	33	31	44	48	46	2.7	-4.2	1.5
GASTROENTEROLOGY	11	8	8	0	0	3	-100.0	**	-19.5
HEMATOLOGY	3	3	7	14	8	9	21.7	12.5	20.1
NEUROLOGY	327	303	314	366	369	330	2.4	-10.6	.2
NURSING	2,966	4,027	5,584	6,336	6,483	7,329	16.9	13.0	16.3
OBSTETRICS/GYNECOLOGY	51	52	25	33	5	10	-37.2	100.0	-23.8
OPHTHALMOLOGY	25	8	9	5	15	19	-9.7	26.7	-4.5
OTORHINOLARYNGOLOGY	50	64	56	24	18	15	-18.5	-16.7	-18.2
PEDIATRICS	156	143	112	88	109	119	-6.9	9.2	-4.4
PHARMACEUTICAL SCIENCES	1,480	1,422	1,592	1,626	1,660	1,693	2.3	2.0	2.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,032	3,268	3,097	4,303	4,510	4,434	8.3	-1.7	6.5
PSYCHIATRY	122	114	127	120	61	57	-12.9	-6.6	-11.9
PULMONARY DISEASE	7	0	3	1	15	9	16.5	-40.0	4.3
RADIOLOGY	320	267	266	217	230	235	-6.4	2.2	-5.0
SPEECH PATHOLOGY/AUDIOLOGY	5,174	5,342	5,427	5,236	5,663	5,474	1.8	-3.3	.9
SURGERY	113	105	81	50	64	69	-10.7	7.8	-7.9
VETERINARY SCIENCES	510	576	640	696	681	685	6.0	.6	5.0
CLINICAL MEDICINE, N.E.C.	245	193	265	264	344	296	7.0	-14.0	3.2
HEALTH RELATED, N.E.C.	2,158	2,299	2,406	2,924	3,480	3,411	10.0	-2.0	7.9
PSYCHOLOGY	24,094	25,593	25,668	25,822	26,673	26,697	2.1	.1	1.7
SOCIAL SCIENCES	54,462	53,749	55,778	55,934	56,349	55,574	.7	-1.4	.3
AGRICULTURAL ECONOMICS	1,891	1,933	1,958	1,948	2,062	2,037	1.7	-1.2	1.2
ANTHROPOLOGY	5,015	5,035	5,092	4,591	4,616	4,324	-1.6	-6.3	-2.4
ECONOMICS (EXCEPT AGRICULTURAL)	8,271	8,074	8,290	8,258	9,188	9,318	2.1	1.4	2.0
GEOGRAPHY	2,415	2,487	2,312	2,107	2,294	2,289	-1.0	-.2	-.9
HISTORY AND PHILOSOPHY OF SCIENCE	259	270	257	234	241	217	-1.4	-10.0	-2.9
LINGUISTICS	2,030	2,130	1,862	2,191	2,177	2,181	1.4	.2	1.2
POLITICAL SCIENCE	13,769	13,078	13,802	14,239	13,743	14,427	*	5.0	.8
SOCIOLOGY	6,629	6,707	6,360	5,851	5,851	5,582	-2.5	-4.6	-2.8
SOCIOLOGY/ANTHROPOLOGY	1,059	746	785	669	644	577	-9.5	-10.4	-9.6
SOCIAL SCIENCES, N.E.C.	13,124	13,289	15,060	15,846	15,533	14,622	3.4	-5.9	1.8

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-4. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1975-77 AND 1979-81 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	111,051	113,492	122,288	130,918	134,036	138,606	3.8	3.4	3.8
ENGINEERING	30,591	30,828	32,554	33,076	33,566	36,316	1.9	8.2	2.9
AEROSPACE	425	312	331	329	410	400	-.7	-2.4	-1.0
AGRICULTURAL	87	113	93	101	116	135	5.9	16.4	7.6
BIOMEDICAL	129	186	181	199	201	185	9.3	-8.0	6.2
CHEMICAL	1,542	1,527	1,339	1,400	1,565	1,550	.3	-1.0	.1
CIVIL	5,141	4,921	5,121	5,062	5,073	5,144	-.3	1.4	*
ELECTRICAL	8,042	7,779	8,878	8,750	9,264	9,759	2.9	5.3	3.3
ENGINEERING SCIENCE	599	629	647	633	675	783	2.4	16.0	4.6
INDUSTRIAL	7,511	8,029	7,923	8,023	7,472	8,132	-.1	8.8	1.3
MECHANICAL	3,670	3,394	3,839	3,823	4,047	4,347	2.0	7.4	2.9
METALLURGICAL/MATERIALS	563	512	604	619	643	666	2.7	3.6	2.8
MINING	96	135	133	122	137	118	7.4	-13.9	3.5
NUCLEAR	375	378	332	251	211	265	-10.9	25.6	-5.6
PETROLEUM	74	53	78	87	130	128	11.9	-1.5	9.6
ENGINEERING, N.E.C.	2,337	2,860	3,055	3,677	3,622	4,704	9.2	29.9	12.4
PHYSICAL SCIENCES	4,385	4,369	4,332	4,170	4,033	3,997	-1.7	-.9	-1.5
ASTRONOMY	52	60	45	38	35	32	-7.6	-8.6	-7.8
CHEMISTRY	2,871	2,835	2,886	2,740	2,642	2,645	-1.6	.1	-1.4
PHYSICS	1,365	1,372	1,267	1,231	1,244	1,222	-1.8	-1.8	-1.8
PHYSICAL SCIENCES, N.E.C.	97	102	134	161	112	98	2.9	-12.5	.2
ENVIRONMENTAL SCIENCES	2,581	2,705	2,962	2,955	3,019	3,219	3.2	6.6	3.8
ATMOSPHERIC SCIENCES	105	108	118	113	134	142	5.0	6.0	5.2
GEOSCIENCES	1,376	1,401	1,517	1,709	1,598	1,746	3.0	9.3	4.0
OCEANOGRAPHY	296	272	417	357	425	460	7.5	8.2	7.6
ENVIRONMENTAL SCIENCES, N.E.C.	804	924	910	776	862	871	1.4	1.0	1.3
MATHEMATICAL/COMPUTER SCIENCES	10,165	10,007	10,188	11,218	12,433	14,536	4.1	16.9	6.1
COMPUTER SCIENCE	3,924	4,138	4,760	6,172	7,297	9,178	13.2	25.8	15.2
MATHEMATICS AND APPLIED MATHEMATICS	5,711	5,334	4,906	4,515	4,612	4,923	-4.2	6.7	-2.4
STATISTICS	530	535	522	531	524	435	-.2	-17.0	-3.2
LIFE SCIENCES	19,900	21,920	26,884	28,862	30,247	30,945	8.7	2.3	7.6
AGRICULTURAL SCIENCES	1,813	1,830	1,968	2,296	2,303	2,023	4.9	-12.2	1.8
BIOLOGICAL SCIENCES	9,466	9,979	11,071	10,349	9,998	9,282	1.1	-7.2	-.3
ANATOMY	91	83	112	78	76	82	-3.5	7.9	-1.7
BIOCHEMISTRY	370	324	300	358	286	278	-5.0	-2.8	-4.7
BIOLOGY	5,629	5,910	6,310	5,527	5,274	4,810	-1.3	-8.8	-2.6
BIOMETRY/EPIDEMIOLOGY	104	121	171	162	216	198	15.7	-8.3	11.3
BIOPHYSICS	95	25	23	31	16	13	-30.0	-18.8	-28.2
BOTANY	435	451	417	363	415	442	-.9	6.5	.3
CELL BIOLOGY	21	30	35	16	19	17	-2.0	-10.5	-3.5
ECOLOGY	61	96	93	188	184	131	24.7	-28.8	13.6
ENTOMOLOGY/PARASITOLOGY	179	178	213	226	187	198	.9	5.9	1.7
GENETICS	89	90	87	95	79	64	-2.4	-19.0	-5.3
MICROBIOLOGY	543	613	692	612	511	491	-1.2	-3.9	-1.7
NUTRITION	435	579	957	897	1,076	1,147	19.9	6.6	17.5
PATHOLOGY	400	522	621	617	646	475	10.1	-26.5	2.9
PHARMACOLOGY	97	115	123	150	127	107	5.5	-15.7	1.6
PHYSIOLOGY	240	245	192	285	239	207	-.1	-13.4	-2.4
ZOOLOGY	471	419	439	466	396	374	-3.4	-5.6	-3.8
BIOSCIENCES, N.E.C.	206	178	286	278	251	248	4.0	-1.2	3.1
HEALTH SCIENCES	8,621	10,111	13,845	16,217	17,946	19,640	15.8	9.4	14.7
ANESTHESIOLOGY	0	0	2	2	4	4	**	.0	**
CANCER/ONCOLOGY	4	5	0	2	2	2	-12.9	.0	-10.9
CARDIOLOGY	1	2	2	0	3	8	24.6	166.7	41.4
DENTISTRY	195	184	239	172	193	280	-.2	45.1	6.2
ENDOCRINOLOGY	0	4	7	6	5	5	**	.0	**
GASTROENTEROLOGY	4	0	0	0	0	1	-100.0	**	-20.6
HEMATOLOGY	0	1	11	6	8	0	**	-100.0	**
NEUROLOGY	6	9	9	16	18	3	24.6	-83.3	-10.9
NURSING	2,341	3,228	5,359	6,460	7,394	8,505	25.9	15.0	24.0
OBSTETRICS/GYNECOLOGY	2	7	2	3	1	3	-12.9	200.0	7.0
OPHTHALMOLOGY	5	5	7	1	1	3	-27.5	200.0	-8.2
OTORHINOLARYNGOLOGY	4	4	1	2	0	0	-100.0	**	-100.0
PEDIATRICS	27	72	40	3	7	2	-23.7	-71.4	-35.2
PHARMACEUTICAL SCIENCES	765	795	923	861	836	923	1.8	10.4	3.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	792	1,176	1,524	2,103	2,564	2,726	26.5	6.3	22.9
PSYCHIATRY	54	33	23	13	2	49	-48.3	2350.0	-1.6
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	57	15	41	63	50	40	-2.6	-20.0	-5.7
SPEECH PATHOLOGY/AUDIOLOGY	2,365	2,383	2,836	3,162	3,072	3,222	5.4	4.9	5.3
SURGERY	11	12	18	2	2	6	-28.9	200.0	-9.6
VETERINARY SCIENCES	173	173	188	224	227	242	5.6	6.6	5.8
CLINICAL MEDICINE, N.E.C.	34	109	226	321	449	442	67.6	-1.6	53.3
HEALTH RELATED, N.E.C.	1,781	1,894	2,387	2,795	3,108	3,174	11.8	2.1	10.1
PSYCHOLOGY	12,081	11,796	12,907	13,907	13,901	14,059	2.8	1.1	2.6
SOCIAL SCIENCES	31,348	31,867	32,461	36,730	36,837	35,534	3.3	-3.5	2.1
AGRICULTURAL ECONOMICS	214	219	240	251	275	221	5.1	-19.6	.5
ANTHROPOLOGY	1,617	1,587	1,636	1,752	1,706	1,791	1.1	5.0	1.7
ECONOMICS (EXCEPT AGRICULTURAL)	3,724	3,755	3,693	3,782	3,879	3,953	.8	1.9	1.0
GEOGRAPHY	1,194	1,316	1,164	1,005	978	951	-3.9	-2.8	-3.7
HISTORY AND PHILOSOPHY OF SCIENCE	44	52	43	31	39	31	-2.4	-20.5	-5.7
LINGUISTICS	623	614	693	757	706	854	2.5	21.0	5.4
POLITICAL SCIENCE	12,746	13,467	14,046	17,021	17,933	16,695	7.1	-6.9	4.6
SOCIOLOGY	3,170	2,908	2,839	2,707	2,535	2,536	-4.4	*	-3.7
SOCIOLOGY/ANTHROPOLOGY	552	551	482	474	468	479	-3.2	2.4	-2.3
SOCIAL SCIENCES, N.E.C.	7,464	7,398	7,625	8,950	8,318	8,023	2.2	-3.5	1.2

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* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-5. -- MALE SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1976-77 AND 1979-81 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	270,073	250,218	246,983	249,364	249,573	-2.0	0.1	-1.6
ENGINEERING	65,847	66,547	67,741	70,266	74,515	1.6	6.0	2.5
AEROSPACE	1,454	1,485	1,432	1,663	1,782	3.4	7.2	4.2
AGRICULTURAL	634	689	721	721	768	3.3	6.5	3.9
BIOMEDICAL	879	808	906	835	867	-1.3	3.8	-.3
CHEMICAL	5,059	4,946	5,101	5,439	5,824	1.8	7.1	2.9
CIVIL	10,826	10,908	10,726	10,901	11,291	.2	3.6	.8
ELECTRICAL	15,615	16,696	16,856	18,244	18,890	4.0	3.5	3.9
ENGINEERING SCIENCE	1,694	1,682	1,589	1,693	1,798	*	6.2	1.2
INDUSTRIAL	11,317	10,551	10,545	9,807	10,076	-3.5	2.7	-2.3
MECHANICAL	8,243	8,510	8,868	9,441	10,160	3.5	7.6	4.3
METALLURGICAL/MATERIALS	2,251	2,356	2,451	2,584	2,719	3.5	5.2	3.9
MINING	610	582	478	488	520	-5.4	6.6	-3.1
NUCLEAR	1,550	1,434	1,268	1,199	1,234	-6.2	2.9	-4.5
PETROLEUM	367	365	393	462	469	5.9	1.5	5.0
ENGINEERING, N.E.C.	5,348	5,535	6,407	6,789	8,117	6.1	19.6	8.7
PHYSICAL SCIENCES	23,368	22,859	22,201	22,372	22,323	-1.1	-.2	-.9
ASTRONOMY	612	564	559	546	506	-2.8	-7.3	-3.7
CHEMISTRY	13,167	12,931	12,682	12,716	12,567	-.9	-1.2	-.9
PHYSICS	9,422	9,169	8,817	8,970	9,138	-1.2	1.9	-.6
PHYSICAL SCIENCES, N.E.C.	167	195	143	140	112	-4.3	-20.0	-7.7
ENVIRONMENTAL SCIENCES	10,820	10,860	10,502	10,534	10,667	-.7	1.3	-.3
ATMOSPHERIC SCIENCES	863	854	791	805	783	-1.7	-2.7	-1.9
GEOSCIENCES	6,475	6,496	6,569	6,586	6,667	.4	1.2	.6
OCEANOGRAPHY	1,505	1,624	1,474	1,530	1,543	.4	.8	.5
ENVIRONMENTAL SCIENCES, N.E.C.	1,977	1,886	1,668	1,613	1,674	-5.0	3.8	-3.3
MATHEMATICAL/COMPUTER SCIENCES	21,654	19,457	20,367	21,727	23,590	.1	8.6	1.7
COMPUTER SCIENCE	8,026	7,806	9,705	10,830	12,597	7.8	16.3	9.4
MATHEMATICS AND APPLIED MATHEMATICS	11,988	10,145	9,216	9,405	9,560	-5.9	1.6	-4.4
STATISTICS	1,640	1,506	1,446	1,492	1,433	-2.3	-4.0	-2.7
LIFE SCIENCES	60,687	53,895	51,560	51,147	49,453	-4.2	-3.3	-4.0
AGRICULTURAL SCIENCES	9,620	9,471	9,524	9,492	9,339	-.3	-1.6	-.6
BIOLOGICAL SCIENCES	34,756	32,429	30,142	29,107	27,767	-4.3	-4.6	-4.4
ANATOMY	793	768	691	660	662	-4.5	.3	-3.5
BIOCHEMISTRY	2,867	2,770	2,720	2,640	2,598	-2.0	-1.6	-2.0
BIOLOGY	12,579	11,463	10,096	9,413	8,741	-7.0	-7.1	-7.0
BIOMETRY/EPIDEMIOLOGY	525	598	596	650	665	5.5	2.3	4.8
BIOPHYSICS	514	482	456	403	361	-5.9	-10.4	-6.8
BOTANY	2,809	2,747	2,463	2,400	2,245	-3.9	-6.5	-4.4
CELL BIOLOGY	406	433	442	518	559	6.3	7.9	6.6
ECOLOGY	673	752	718	796	713	4.3	-10.4	1.2
ENTOMOLOGY/PARASITOLOGY	1,384	1,318	1,346	1,359	1,310	-.5	-3.6	-1.1
GENETICS	515	538	497	484	461	-1.5	-4.8	-2.2
MICROBIOLOGY	2,890	2,748	2,378	2,341	2,201	-5.1	-6.0	-5.3
NUTRITION	1,761	1,427	1,334	1,406	1,373	-5.5	-2.3	-4.9
PATHOLOGY	1,148	1,012	1,099	1,034	910	-2.6	-12.0	-4.5
PHARMACOLOGY	1,298	1,312	1,410	1,352	1,316	1.0	-2.7	.3
PHYSIOLOGY	1,717	1,554	1,483	1,429	1,416	-4.5	-.9	-3.8
ZOOLOGY	2,552	2,152	1,962	1,764	1,732	-8.8	-1.8	-7.5
BIOSCIENCES, N.E.C.	325	355	451	458	504	9.0	10.0	9.2
HEALTH SCIENCES	16,311	11,995	11,894	12,548	12,347	-6.3	-1.6	-5.4
ANESTHESIOLOGY	3	4	9	3	4	.0	33.3	5.9
CANCER/ONCOLOGY	38	40	37	36	46	-1.3	27.8	3.9
CARDIOLOGY	2	4	3	27	21	91.7	-22.2	60.0
DENTISTRY	1,042	1,065	1,059	991	967	-1.2	-2.4	-1.5
ENDOCRINOLOGY	26	27	30	29	25	2.8	-13.8	-.8
GASTROENTEROLOGY	8	8	0	0	3	-100.0	**	-17.8
HEMATOLOGY	2	7	10	4	2	18.9	-50.0	.0
NEUROLOGY	224	226	260	269	227	4.7	-15.6	.3
NURSING	3,006	426	578	649	756	-31.8	16.5	-24.1
OBSTETRICS/GYNECOLOGY	45	17	25	4	5	-45.4	25.0	-35.6
OPHTHALMOLOGY	11	12	4	9	16	-4.9	77.8	7.8
OTORHINOLARYNGOLOGY	58	36	23	16	11	-27.5	-31.3	-28.3
PEDIATRICS	127	48	18	25	29	-33.4	16.0	-25.6
PHARMACEUTICAL SCIENCES	1,916	1,797	1,752	1,785	1,844	-1.8	3.3	-.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,900	2,512	3,074	3,395	3,359	4.0	-1.1	3.0
PSYCHIATRY	98	87	56	24	58	-29.7	141.7	-10.0
PULMONARY DISEASE	0	3	0	13	5	**	-61.5	**
RADIOLOGY	225	243	229	227	215	.2	-5.3	-.9
SPEECH PATHOLOGY/AUDIOLOGY	3,102	1,952	1,464	1,356	1,217	-18.7	-10.3	-17.1
SURGERY	102	85	50	53	63	-15.1	18.9	-9.2
VETERINARY SCIENCES	610	617	654	597	589	-.5	-1.3	-.7
CLINICAL MEDICINE, N.E.C.	234	287	254	303	311	6.7	2.6	5.9
HEALTH RELATED, N.E.C.	2,532	2,492	2,305	2,733	2,574	1.9	-5.8	.3
PSYCHOLOGY	23,809	20,495	19,401	19,011	17,920	-5.5	-5.7	-5.5
SOCIAL SCIENCES	63,888	56,105	55,211	54,307	51,105	-4.0	-5.9	-4.4
AGRICULTURAL ECONOMICS	1,957	1,909	1,807	1,868	1,788	-1.2	-4.3	-1.8
ANTHROPOLOGY	4,071	3,386	3,099	3,009	2,788	-7.3	-7.3	-7.3
ECONOMICS (EXCEPT AGRICULTURAL)	10,370	9,707	9,450	10,091	10,102	-.7	.1	-.5
GEOGRAPHY	3,090	2,588	2,194	2,318	2,230	-6.9	-3.8	-6.3
HISTORY AND PHILOSOPHY OF SCIENCE	253	215	191	189	159	-7.0	-15.9	-8.9
LINGUISTICS	1,446	1,171	1,299	1,280	1,316	-3.0	2.8	-1.9
POLITICAL SCIENCE	22,233	20,304	20,919	20,684	19,444	-1.8	-6.0	-2.6
SOCIOLOGY	6,486	5,046	4,503	4,221	3,953	-10.2	-6.3	-9.4
SOCIOLOGY/ANTHROPOLOGY	953	790	572	575	503	-11.9	-12.5	-12.0
SOCIAL SCIENCES, N.E.C.	13,029	10,989	11,177	10,072	8,822	-6.2	-12.4	-7.5

1/ DATA WERE NOT COLLECTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-6. -- FEMALE SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1976-77 AND 1979-81 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	74,332	108,249	126,326	133,841	142,461	15.8	6.4	13.9
ENGINEERING	2,297	4,082	6,309	6,907	8,462	31.7	22.5	29.8
AEROSPACE	23	33	49	74	67	33.9	-9.5	23.8
AGRICULTURAL	17	29	32	31	44	16.2	41.9	20.9
BIOMEDICAL	55	83	132	166	180	31.8	8.4	26.8
CHEMICAL	275	409	663	756	869	28.8	14.9	25.9
CIVIL	393	705	1,103	1,162	1,173	31.1	.9	24.4
ELECTRICAL	311	710	933	983	1,270	33.3	29.2	32.5
ENGINEERING SCIENCE	80	99	150	168	217	20.4	29.2	22.1
INDUSTRIAL	422	927	1,439	1,614	2,003	39.8	24.1	36.5
MECHANICAL	131	273	469	534	655	42.1	22.7	38.0
METALLURGICAL/MATERIALS	108	181	288	302	387	29.3	28.1	29.1
MINING	32	38	44	45	68	8.9	51.1	16.3
NUCLEAR	50	57	88	83	87	13.5	4.8	11.7
PETROLEUM	9	14	31	41	52	46.1	26.8	42.0
ENGINEERING, N.E.C.	391	524	888	948	1,390	24.8	46.6	28.9
PHYSICAL SCIENCES	3,295	4,041	4,495	4,598	5,028	8.7	9.4	8.8
ASTRONOMY	69	80	79	82	91	4.4	11.0	5.7
CHEMISTRY	2,484	3,084	3,417	3,504	3,813	9.0	8.8	8.9
PHYSICS	680	805	886	946	1,046	8.6	10.6	9.0
PHYSICAL SCIENCES, N.E.C.	62	72	113	66	78	1.6	18.2	4.7
ENVIRONMENTAL SCIENCES	1,783	2,253	2,824	3,132	3,432	15.1	9.6	14.0
ATMOSPHERIC SCIENCES	67	75	101	118	131	15.2	11.0	14.4
GEOSCIENCES	1,048	1,319	1,746	1,884	2,024	15.8	7.4	14.1
OCEANOGRAPHY	270	355	414	488	554	15.9	13.5	15.5
ENVIRONMENTAL SCIENCES, N.E.C.	398	504	563	642	723	12.7	12.6	12.7
MATHEMATICAL/COMPUTER SCIENCES	4,014	5,665	6,340	7,162	8,672	15.6	21.1	16.7
COMPUTER SCIENCE	939	1,647	2,402	3,178	4,318	35.6	35.9	35.7
MATHEMATICS AND APPLIED MATHEMATICS	2,683	3,520	3,435	3,441	3,823	6.4	11.1	7.3
STATISTICS	392	498	503	543	531	8.5	-2.2	6.3
LIFE SCIENCES	27,635	41,994	48,577	51,600	54,028	16.9	4.7	14.3
AGRICULTURAL SCIENCES	1,517	2,069	2,600	2,827	2,732	16.8	-3.4	12.5
BIOLOGICAL SCIENCES	13,054	16,944	18,088	18,426	18,653	9.0	1.2	7.4
ANATOMY	319	382	407	400	378	5.8	-5.5	3.5
BIOCHEMISTRY	956	1,103	1,240	1,269	1,299	7.3	2.4	6.3
BIOLOGY	4,506	5,711	5,856	5,741	5,635	6.2	-1.8	4.6
BIOMETRY/EPIDEMIOLOGY	359	472	537	615	542	14.4	-11.9	8.6
BIOPHYSICS	110	117	108	119	139	2.0	16.8	4.8
BOTANY	991	1,118	1,138	1,183	1,189	4.5	.5	3.7
CELL BIOLOGY	189	225	264	281	312	10.4	11.0	10.5
ECOLOGY	212	268	299	335	343	12.1	2.4	10.1
ENTOMOLOGY/PARASITOLOGY	206	274	335	344	344	13.7	.0	10.8
GENETICS	368	468	453	464	461	6.0	-.6	4.6
MICROBIOLOGY	1,306	1,620	1,621	1,647	1,682	6.0	2.1	5.2
NUTRITION	1,360	2,373	2,561	2,661	2,932	18.3	10.2	16.6
PATHOLOGY	460	687	763	830	758	15.9	-8.7	10.5
PHARMACOLOGY	391	465	579	649	682	13.5	5.1	11.8
PHYSIOLOGY	470	518	651	625	682	7.4	9.1	7.7
ZOOLOGY	750	918	937	922	910	5.3	-1.3	3.9
BIOSCIENCES, N.E.C.	101	225	339	341	365	35.6	7.0	29.3
HEALTH SCIENCES	13,064	22,981	27,889	30,347	32,643	23.5	7.6	20.1
ANESTHESIOLOGY	2	1	11	14	16	62.7	14.3	51.6
CANCER/ONCOLOGY	9	11	10	10	0	2.7	-100.0	-100.0
CARDIOLOGY	0	1	0	11	17	**	54.5	**
DENTISTRY	132	198	266	296	330	22.4	11.5	20.1
ENDOCRINOLOGY	11	11	20	24	26	21.5	8.3	18.8
GASTROENTEROLOGY	0	0	0	0	1	**	**	**
HEMATOLOGY	2	11	10	12	7	56.5	-41.7	28.5
NEUROLOGY	88	97	122	118	106	7.6	-10.2	3.8
NURSING	4,249	10,517	12,218	13,228	15,078	32.8	14.0	28.8
OBSTETRICS/GYNECOLOGY	14	10	11	2	8	-38.5	300.0	-10.6
OPHTHALMOLOGY	2	4	2	7	6	36.8	-14.3	24.6
OTORHINOLARYNGOLOGY	10	21	3	2	4	-33.1	100.0	-16.7
PEDIATRICS	88	104	73	91	92	.8	1.1	.9
PHARMACEUTICAL SCIENCES	301	718	735	711	772	24.0	8.6	20.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,544	2,109	3,332	3,679	3,801	24.2	3.3	19.7
PSYCHIATRY	49	63	77	39	48	-5.5	23.1	-.4
PULMONARY DISEASE	0	0	1	2	4	**	100.0	**
RADIOLOGY	57	64	51	53	60	-1.8	13.2	1.0
SPEECH PATHOLOGY/AUDIOLOGY	4,623	6,311	6,934	7,379	7,479	12.4	1.4	10.1
SURGERY	15	14	2	13	12	-3.5	-7.7	-4.4
VETERINARY SCIENCES	139	211	266	311	338	22.3	8.7	19.4
CLINICAL MEDICINE, N.E.C.	68	204	331	490	427	63.8	-12.9	44.4
HEALTH RELATED, N.E.C.	1,661	2,301	3,414	3,855	4,011	23.4	4.0	19.3
PSYCHOLOGY	13,580	18,080	20,328	21,563	22,836	12.3	5.9	11.0
SOCIAL SCIENCES	21,728	32,134	37,453	38,879	40,003	15.7	2.9	13.0
AGRICULTURAL ECONOMICS	195	289	392	469	470	24.5	.2	19.2
ANTHROPOLOGY	2,551	3,342	3,244	3,313	3,327	6.8	.4	5.5
ECONOMICS (EXCEPT AGRICULTURAL)	1,459	2,276	2,590	2,976	3,169	19.5	6.5	16.8
GEOGRAPHY	713	888	918	954	1,010	7.6	5.9	7.2
HISTORY AND PHILOSOPHY OF SCIENCE	69	85	74	91	89	7.2	-2.2	5.2
LINGUISTICS	1,298	1,384	1,649	1,603	1,719	5.4	7.2	5.8
POLITICAL SCIENCE	4,312	7,544	10,341	10,992	11,678	26.4	6.2	22.0
SOCIOLOGY	3,129	4,153	4,055	4,165	4,165	7.4	.0	5.9
SOCIOLOGY/ANTHROPOLOGY	344	477	571	537	553	11.8	3.0	10.0
SOCIAL SCIENCES, N.E.C.	7,658	11,696	13,619	13,779	13,823	15.8	.3	12.5

1/ DATA HERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-7. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC INSTITUTIONS BY FIELD: 1975-77 AND 1979-81 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	234,029	237,490	244,315	252,732	257,438	261,858	1.9	1.7	1.9
ENGINEERING	41,175	41,095	41,804	43,519	45,898	49,177	2.2	7.1	3.0
AEROSPACE	1,196	1,082	1,067	1,037	1,208	1,288	.2	6.6	1.2
AGRICULTURAL	563	618	682	716	714	768	4.9	7.6	5.3
BIOMEDICAL	440	505	444	542	553	588	4.7	6.3	5.0
CHEMICAL	3,573	3,548	3,559	3,840	4,173	4,445	3.2	6.5	3.7
CIVIL	7,865	7,557	7,998	8,032	8,130	8,348	.7	2.7	1.0
ELECTRICAL	9,287	9,067	9,744	9,745	10,455	10,977	2.4	5.0	2.8
ENGINEERING SCIENCE	1,143	1,213	1,112	1,008	1,110	1,212	-.6	9.2	1.0
INDUSTRIAL	4,492	4,468	3,995	4,245	4,412	4,591	-.4	4.1	.4
MECHANICAL	5,766	5,603	5,539	5,795	6,246	6,824	1.6	9.3	2.8
METALLURGICAL/MATERIALS	1,402	1,430	1,506	1,669	1,701	1,799	3.9	5.8	4.2
MINING	425	548	534	439	450	506	1.1	12.4	3.0
NUCLEAR	1,128	1,164	1,085	1,000	951	993	-3.4	4.4	-2.1
PETROLEUM	155	226	228	248	272	271	11.9	-.4	9.8
ENGINEERING, N.E.C.	3,740	4,066	4,311	5,203	5,523	6,567	8.1	18.9	9.8
PHYSICAL SCIENCES	18,358	18,603	18,815	18,734	18,933	19,219	.6	1.5	.8
ASTRONOMY	483	452	420	421	421	393	-2.7	-6.7	-3.4
CHEMISTRY	10,850	11,162	11,395	11,502	11,595	11,701	1.3	.9	1.3
PHYSICS	6,820	6,780	6,760	6,634	6,723	6,948	-.3	3.3	.3
PHYSICAL SCIENCES, N.E.C.	205	209	240	177	194	177	-1.1	-8.8	-2.4
ENVIRONMENTAL SCIENCES	10,139	10,610	10,989	11,302	11,558	11,846	2.7	2.5	2.6
ATMOSPHERIC SCIENCES	858	865	874	845	850	822	-.2	-3.3	-.7
GEOSCIENCES	5,544	5,928	6,250	6,756	6,923	7,119	4.5	2.8	4.3
OCEANOGRAPHY	1,503	1,545	1,628	1,676	1,775	1,859	3.4	4.7	3.6
ENVIRONMENTAL SCIENCES, N.E.C.	2,234	2,272	2,237	2,025	2,010	2,046	-2.1	1.8	-1.5
MATHEMATICAL/COMPUTER SCIENCES	18,260	18,498	17,555	18,204	19,223	20,820	1.0	8.3	2.2
COMPUTER SCIENCE	5,650	6,195	6,082	7,512	8,584	9,945	8.7	15.9	9.9
MATHEMATICS AND APPLIED MATHEMATICS	11,096	10,777	9,955	9,209	9,054	9,303	-4.0	2.8	-2.9
STATISTICS	1,514	1,526	1,518	1,483	1,585	1,572	.9	-.8	.6
LIFE SCIENCES	65,445	69,064	73,379	76,438	78,157	77,573	3.6	-.7	2.9
AGRICULTURAL SCIENCES	10,269	10,854	11,224	11,784	12,001	11,727	3.1	-2.3	2.2
BIOLOGICAL SCIENCES	34,850	35,882	36,951	35,918	35,586	34,588	.4	-2.8	-.1
ANATOMY	735	769	778	735	675	657	-1.7	-2.7	-1.9
BIOCHEMISTRY	2,674	2,704	2,742	2,724	2,672	2,612	*	-2.2	-.4
BIOLOGY	11,234	11,970	12,043	11,175	10,745	10,273	-.9	-4.4	-1.5
BIOMETRY/EPIDEMIOLOGY	488	444	589	645	750	691	9.0	-7.9	6.0
BIOPHYSICS	503	392	370	360	325	310	-8.4	-4.6	-7.8
BOTANY	3,267	3,546	3,616	3,327	3,301	3,152	.2	-4.5	-.6
CELL BIOLOGY	353	365	423	446	480	493	6.3	2.7	5.7
ECOLOGY	729	818	962	912	1,043	961	7.4	-7.9	4.7
ENTOMOLOGY/PARASITOLOGY	1,484	1,527	1,532	1,613	1,645	1,594	2.1	-3.1	1.2
GENETICS	633	644	731	694	657	643	.7	-2.1	.3
MICROBIOLOGY	3,152	3,215	3,272	3,037	3,056	2,905	-.6	-4.9	-1.4
NUTRITION	2,282	2,498	3,052	3,112	3,251	3,406	7.3	4.8	6.9
PATHOLOGY	1,071	978	1,028	1,197	1,233	1,054	2.9	-14.5	-.3
PHARMACOLOGY	1,118	1,161	1,185	1,336	1,332	1,349	3.6	1.3	3.2
PHYSIOLOGY	1,643	1,543	1,450	1,417	1,407	1,438	-3.1	2.2	-2.2
ZOOLOGY	3,333	3,111	2,884	2,676	2,484	2,452	-5.7	-1.3	-5.0
BIOSCIENCES, N.E.C.	151	197	294	512	530	598	28.5	12.8	25.8
HEALTH SCIENCES	20,326	22,328	25,204	28,736	30,570	31,258	8.5	2.3	7.4
ANESTHESIOLOGY	14	5	2	14	13	15	-1.5	15.4	1.2
CANCER/ONCOLOGY	59	47	49	47	46	46	-4.9	.0	-4.1
CARDIOLOGY	20	2	2	1	0	0	-100.0	**	-100.0
DENTISTRY	731	751	810	815	841	855	2.8	1.7	2.6
ENDOCRINOLOGY	41	34	33	50	53	51	5.3	-3.8	3.7
GASTROENTEROLOGY	11	8	8	0	0	3	-100.0	**	-19.5
HEMATOLOGY	3	3	1	10	8	6	21.7	-25.0	12.2
NEUROLOGY	177	169	192	229	213	183	3.8	-14.1	.6
NURSING	4,618	5,777	7,591	9,166	10,086	10,947	16.9	8.5	15.5
OBSTETRICS/GYNECOLOGY	45	42	17	21	1	2	-53.3	100.0	-40.5
OPHTHALMOLOGY	11	7	13	4	11	13	.0	18.2	2.8
OTORHINOLARYNGOLOGY	40	52	31	24	12	11	-21.4	-8.3	-19.4
PEDIATRICS	161	199	130	66	84	92	-12.2	9.5	-8.9
PHARMACEUTICAL SCIENCES	1,484	1,492	1,609	1,596	1,665	1,723	2.3	3.5	2.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,803	3,199	3,261	4,286	4,546	4,532	10.2	-.3	8.3
PSYCHIATRY	57	52	69	78	60	72	1.0	20.0	4.0
PULMONARY DISEASE	5	0	3	1	7	7	7.0	.0	5.8
RADIOLOGY	263	177	211	217	213	177	-4.1	-16.9	-6.4
SPEECH PATHOLOGY/AUDIOLOGY	6,183	6,507	6,993	6,997	7,262	7,295	3.3	.5	2.8
SURGERY	103	83	66	38	46	35	-14.9	-23.9	-16.5
VETERINARY SCIENCES	614	669	748	846	842	856	6.5	1.7	5.7
CLINICAL MEDICINE, N.E.C.	241	258	457	516	548	507	17.9	-7.5	13.2
HEALTH RELATED, N.E.C.	2,642	2,795	2,908	3,714	4,013	3,830	8.7	-4.6	6.4
PSYCHOLOGY	23,501	23,360	24,019	23,931	23,719	23,930	.2	.9	.3
SOCIAL SCIENCES	57,151	56,260	57,754	60,604	59,950	59,293	1.0	-1.1	.6
AGRICULTURAL ECONOMICS	2,016	2,072	2,119	2,099	2,210	2,156	1.9	-2.4	1.1
ANTHROPOLOGY	4,732	4,924	4,990	4,769	4,650	4,439	-.3	-4.5	-1.1
ECONOMICS (EXCEPT AGRICULTURAL)	7,911	7,619	7,624	7,532	8,034	8,044	.3	.1	.3
GEOGRAPHY	3,280	3,517	3,200	2,853	2,984	2,964	-1.9	-.7	-1.7
HISTORY AND PHILOSOPHY OF SCIENCE	150	164	163	148	165	141	1.9	-14.5	-1.0
LINGUISTICS	1,680	1,712	1,663	1,779	1,806	1,969	1.5	9.0	2.7
POLITICAL SCIENCE	15,294	15,240	15,747	17,276	17,588	17,668	2.8	.5	2.4
SOCIOLOGY	6,916	6,610	6,394	6,026	5,832	5,681	-3.4	-2.6	-3.2
SOCIOLOGY/ANTHROPOLOGY	1,206	941	881	764	742	654	-9.3	-11.9	-9.7
SOCIAL SCIENCES, N.E.C.	13,966	13,461	14,973	17,358	15,939	15,577	2.7	-2.3	1.8

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-8. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE INSTITUTIONS BY FIELD: 1975-77 AND 1979-81 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	103,716	106,915	114,152	120,577	125,767	130,176	3.9	3.5	3.9
ENGINEERING	27,335	27,049	28,825	30,531	31,275	33,800	2.7	8.1	3.6
AEROSPACE	474	395	451	444	529	561	2.2	6.0	2.8
AGRICULTURAL	36	33	36	37	38	44	1.1	15.8	3.4
BIOMEDICAL	475	429	447	496	448	459	-1.2	2.5	-.6
CHEMICAL	1,612	1,786	1,796	1,924	2,022	2,248	4.6	11.2	5.7
CIVIL	4,059	3,662	3,615	3,797	3,933	4,116	-.6	4.7	.2
ELECTRICAL	7,033	6,859	7,662	8,044	8,772	9,183	4.5	4.7	4.5
ENGINEERING SCIENCE	569	561	669	731	751	803	5.7	6.9	5.9
INDUSTRIAL	7,171	7,271	7,483	7,739	7,009	7,488	-.5	6.8	.7
MECHANICAL	2,835	2,771	3,244	3,542	3,729	3,991	5.6	7.0	5.9
METALLURGICAL/MATERIALS	937	929	1,031	1,070	1,185	1,307	4.8	10.3	5.7
MINING	82	94	86	83	83	82	.2	-1.2	.0
NUCLEAR	508	436	406	356	331	328	-8.2	-.9	-7.0
PETROLEUM	147	150	151	176	231	250	9.5	8.2	9.3
ENGINEERING, N.E.C.	1,397	1,673	1,748	2,092	2,214	2,940	9.6	32.8	13.2
PHYSICAL SCIENCES	7,986	8,060	8,085	7,962	8,037	8,132	.1	1.2	.3
ASTRONOMY	228	229	224	217	207	204	-1.9	-1.4	-1.8
CHEMISTRY	4,437	4,489	4,620	4,59,	4,625	4,679	.8	1.2	.9
PHYSICS	3,282	3,322	3,214	3,069	3,193	3,236	-.5	1.3	-.2
PHYSICAL SCIENCES, N.E.C.	39	20	27	79	12	13	-21.0	8.3	-16.7
ENVIRONMENTAL SCIENCES	1,993	1,993	2,124	2,024	2,108	2,253	1.1	6.9	2.1
ATMOSPHERIC SCIENCES	79	65	55	47	73	92	-1.6	26.0	2.6
GEOSCIENCES	1,578	1,595	1,565	1,559	1,547	1,572	-.4	1.6	-.1
OCEANOGRAPHY	234	230	351	212	243	238	.8	-2.1	.3
ENVIRONMENTAL SCIENCES, N.E.C.	102	103	153	206	245	351	19.2	43.3	22.9
MATHEMATICAL/COMPUTER SCIENCES	7,073	7,170	7,567	8,503	9,666	11,442	6.4	18.4	8.3
COMPUTER SCIENCE	2,739	2,770	3,371	4,595	5,424	6,970	14.6	28.5	16.8
MATHEMATICS AND APPLIED MATHEMATICS	3,864	3,894	3,710	3,442	3,792	4,080	-.4	7.6	.9
STATISTICS	470	506	486	466	450	392	-.9	-12.9	-3.0
LIFE SCIENCES	17,996	19,258	22,510	23,699	24,590	25,908	6.4	5.4	6.3
AGRICULTURAL SCIENCES	281	283	316	340	318	344	2.5	8.2	3.4
BIOLOGICAL SCIENCES	11,436	11,928	12,422	12,312	11,947	11,832	.9	-1.0	.6
ANATOMY	339	343	372	363	385	383	2.6	-.5	2.1
BIOCHEMISTRY	1,118	1,119	1,131	1,236	1,237	1,285	2.0	3.9	2.3
BIOLOGY	5,011	5,115	5,131	4,777	4,409	4,103	-2.5	-6.9	-3.3
BIOMETRY/EPIDEMIOLOGY	383	440	481	488	515	516	6.1	.2	5.1
BIOPHYSICS	225	232	229	204	197	190	-2.6	-3.6	-2.8
BOTANY	251	254	249	274	282	282	2.4	.0	2.0
CELL BIOLOGY	283	230	235	260	319	378	2.4	18.5	4.9
ECOLOGY	60	67	58	105	88	95	8.0	8.0	8.0
ENTOMOLOGY/PARASITOLOGY	73	63	60	68	58	60	-4.5	3.4	-3.2
GENETICS	234	239	275	256	291	279	4.5	-4.1	3.0
MICROBIOLOGY	880	981	1,096	962	932	978	1.2	4.9	1.8
NUTRITION	544	523	748	783	816	899	8.4	10.2	8.7
PATHOLOGY	472	630	671	665	631	614	6.0	-2.7	4.5
PHARMACOLOGY	467	528	592	653	669	649	7.5	-3.0	5.6
PHYSIOLOGY	630	644	622	717	647	660	.5	2.0	.8
ZOOLOGY	210	191	186	223	202	190	-.8	-5.9	-1.7
BIOSCIENCES, N.E.C.	256	229	286	278	269	271	1.0	.7	1.0
HEALTH SCIENCES	6,279	7,047	9,772	11,047	12,325	13,732	14.4	11.4	13.9
ANESTHESIOLOGY	41	0	3	6	4	5	-37.2	25.0	-29.6
CANCER/ONCOLOGY	0	0	2	0	0	0	**	**	**
CARDIOLOGY	3	0	3	2	38	38	66.2	.0	52.7
DENTISTRY	524	423	453	510	446	442	-3.2	-.9	-2.8
ENDOCRINOLOGY	1	3	5	0	0	0	-100.0	**	-100.0
GASTROENTEROLOGY	4	0	0	0	0	1	-100.0	**	-20.6
HEMATOLOGY	0	1	17	10	8	3	**	-62.5	**
NEUROLOGY	156	143	131	153	174	150	2.2	-13.8	-.7
NURSING	689	1,478	3,352	3,630	3,791	4,887	40.6	28.9	38.6
OBSTETRICS/GYNECOLOGY	8	17	10	15	5	11	-9.0	120.0	5.5
OPHTHALMOLOGY	19	6	3	2	5	9	-23.4	80.0	-11.7
OTORHINOLARYNGOLOGY	14	16	26	2	6	4	-15.6	-33.3	-18.8
PEDIATRICS	22	16	22	25	32	29	7.8	-9.4	4.7
PHARMACEUTICAL SCIENCES	761	725	906	891	831	893	1.8	7.5	2.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,021	1,245	1,360	2,120	2,528	2,628	19.9	4.0	17.1
PSYCHIATRY	119	95	81	55	3	34	-52.1	1033.3	-18.8
PULMONARY DISEASE	2	0	0	0	8	2	32.0	-75.0	.0
RADIOLOGY	114	105	96	63	67	98	-10.1	46.3	-2.5
SPEECH PATHOLOGY/AUDIOLOGY	1,356	1,218	1,270	1,401	1,473	1,401	1.7	-4.9	.5
SURGERY	21	34	33	14	20	40	-1.0	100.0	11.3
VETERINARY SCIENCES	69	80	80	74	66	71	-.9	7.6	.5
CLINICAL MEDICINE, N.E.C.	38	44	34	69	245	231	45.2	-5.7	35.1
HEALTH RELATED, N.E.C.	1,297	1,398	1,885	2,005	2,575	2,755	14.7	7.0	13.4
PSYCHOLOGY	12,674	14,029	14,556	15,798	16,855	16,826	5.9	-.2	4.8
SOCIAL SCIENCES	28,659	29,356	30,485	32,060	33,236	31,815	3.0	-4.3	1.8
AGRICULTURAL ECONOMICS	89	80	79	100	127	102	7.4	-19.7	2.3
ANTHROPOLOGY	1,900	1,698	1,738	1,574	1,672	1,676	-2.5	.2	-2.1
ECONOMICS (EXCEPT AGRICULTURAL)	4,084	4,210	4,359	4,508	5,033	5,227	4.3	3.9	4.2
GEOGRAPHY	329	286	276	259	288	276	-2.6	-4.2	-2.9
HISTORY AND PHILOSOPHY OF SCIENCE	153	158	137	117	115	107	-5.6	-7.0	-5.8
LINGUISTICS	973	1,032	892	1,169	1,077	1,066	2.1	-1.0	1.5
POLITICAL SCIENCE	11,221	11,305	12,101	13,984	14,088	13,454	4.7	-4.5	3.1
SOCIOLOGY	2,883	3,005	2,805	2,532	2,554	2,437	-2.4	-4.6	-2.8
SOCIOLOGY/ANTHROPOLOGY	405	356	386	379	370	402	-1.8	8.6	-.1
SOCIAL SCIENCES, N.E.C.	6,622	7,226	7,712	7,438	7,912	7,068	3.6	-10.7	1.1

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-9. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980–81

AREA AND RACIAL/ETHNIC BACKGROUND	FULL TIME			PART TIME		
	NUMBER		PERCENT CHANGE, 1980–81	NUMBER		PERCENT CHANGE, 1980–81
	1980	1981		1980	1981	
TOTAL, ALL AREAS:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	249,169	253,428	1.7	134,036	138,606	3.4
BLACK, NON-HISPANIC	6,607	6,288	-4.8	5,023	4,744	-5.6
AMERICAN INDIAN/ALASKAN NATIVE	661	515	-22.1	254	231	-9.1
ASIAN/PACIFIC ISLANDER	5,395	4,900	-9.2	2,831	2,846	.5
HISPANIC	4,922	4,556	-7.4	2,490	2,757	10.7
WHITE, NON-HISPANIC	149,489	140,499	-6.0	79,265	77,111	-2.7
FOREIGN, OTHER, OR UNKNOWN	82,095	96,670	17.8	44,173	50,917	15.3
ENGINEERING:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	43,607	46,661	7.0	33,566	36,316	8.2
BLACK, NON-HISPANIC	479	431	-10.0	519	546	5.2
AMERICAN INDIAN/ALASKAN NATIVE	26	67	157.7	50	45	-10.0
ASIAN/PACIFIC ISLANDER	1,516	1,108	-26.9	1,218	1,117	-8.3
HISPANIC	576	478	-17.0	545	475	-12.8
WHITE, NON-HISPANIC	19,014	18,404	-3.2	19,798	20,302	2.5
FOREIGN, OTHER, OR UNKNOWN	21,996	26,173	19.0	11,436	13,831	20.9
PHYSICAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	22,937	23,354	1.8	4,033	3,997	-.9
BLACK, NON-HISPANIC	323	325	.6	96	107	11.5
AMERICAN INDIAN/ALASKAN NATIVE	13	15	15.4	1	4	300.0
ASIAN/PACIFIC ISLANDER	513	499	-2.7	113	138	22.1
HISPANIC	305	326	6.9	65	49	-24.6
WHITE, NON-HISPANIC	13,891	13,399	-3.5	2,403	2,300	-4.3
FOREIGN, OTHER, OR UNKNOWN	7,892	8,790	11.4	1,355	1,399	3.2
ENVIRONMENTAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	10,647	10,880	2.2	3,019	3,219	6.6
BLACK, NON-HISPANIC	62	72	16.1	39	30	-23.1
AMERICAN INDIAN/ALASKAN NATIVE	38	11	-71.1	0	5	**
ASIAN/PACIFIC ISLANDER	134	92	-31.3	27	25	-7.4
HISPANIC	112	134	19.6	31	23	-25.8
WHITE, NON-HISPANIC	7,246	6,961	-3.9	2,025	2,040	.7
FOREIGN, OTHER, OR UNKNOWN	3,055	3,610	18.2	897	1,096	22.2
MATHEMATICAL/COMPUTER SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	16,456	17,726	7.7	12,433	14,536	16.9
BLACK, NON-HISPANIC	208	231	11.1	285	317	11.2
AMERICAN INDIAN/ALASKAN NATIVE	32	8	-75.0	17	4	-76.5
ASIAN/PACIFIC ISLANDER	405	508	25.4	488	510	4.5
HISPANIC	182	215	18.1	108	148	37.0
WHITE, NON-HISPANIC	7,832	8,182	4.5	6,790	7,061	4.0
FOREIGN, OTHER, OR UNKNOWN	7,797	8,582	10.1	4,745	6,496	36.9
AGRICULTURAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	10,016	10,048	.3	2,303	2,023	-12.2
BLACK, NON-HISPANIC	92	91	-1.1	17	34	100.0
AMERICAN INDIAN/ALASKAN NATIVE	19	8	-57.9	0	4	**
ASIAN/PACIFIC ISLANDER	125	97	-22.4	20	25	25.0
HISPANIC	221	134	-39.4	64	34	-46.9
WHITE, NON-HISPANIC	6,274	6,225	-.8	1,455	1,352	-7.1
FOREIGN, OTHER, OR UNKNOWN	3,285	3,493	6.3	747	574	-23.2
BIOLOGICAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	37,535	37,138	-1.1	9,998	9,282	-7.2
BLACK, NON-HISPANIC	726	637	-12.3	281	268	-4.6
AMERICAN INDIAN/ALASKAN NATIVE	53	32	-39.6	25	6	-76.0
ASIAN/PACIFIC ISLANDER	949	785	-17.3	183	157	-14.2
HISPANIC	601	496	-17.5	151	131	-13.2
WHITE, NON-HISPANIC	26,762	24,823	-7.2	6,654	5,795	-12.9
FOREIGN, OTHER, OR UNKNOWN	8,444	10,365	22.7	2,704	2,925	8.2
HEALTH SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	24,949	25,350	1.6	17,946	19,640	9.4
BLACK, NON-HISPANIC	814	770	-5.4	780	719	-7.8
AMERICAN INDIAN/ALASKAN NATIVE	99	90	-9.1	43	36	-16.3
ASIAN/PACIFIC ISLANDER	571	501	-12.3	256	258	.8
HISPANIC	628	400	-36.3	304	265	-12.8
WHITE, NON-HISPANIC	17,681	16,122	-8.8	12,462	12,358	-.8
FOREIGN, OTHER, OR UNKNOWN	5,156	7,467	44.8	4,101	6,004	46.4
PSYCHOLOGY:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	26,673	26,697	.1	13,901	14,059	1.1
BLACK, NON-HISPANIC	1,017	978	-3.8	399	452	13.3
AMERICAN INDIAN/ALASKAN NATIVE	185	48	-74.1	48	45	-6.3
ASIAN/PACIFIC ISLANDER	305	328	7.5	70	78	11.4
HISPANIC	971	955	-1.6	327	276	-15.6
WHITE, NON-HISPANIC	17,604	15,884	-9.8	7,084	7,427	4.8
FOREIGN, OTHER, OR UNKNOWN	6,591	8,504	29.0	5,973	5,781	-3.2
SOCIAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	56,349	55,574	-1.4	36,837	35,534	-3.5
BLACK, NON-HISPANIC	2,886	2,753	-4.6	2,607	2,271	-12.9
AMERICAN INDIAN/ALASKAN NATIVE	196	236	20.4	70	82	17.1
ASIAN/PACIFIC ISLANDER	877	982	12.0	456	538	18.0
HISPANIC	1,326	1,418	6.9	895	1,356	51.5
WHITE, NON-HISPANIC	33,185	30,499	-8.1	20,594	18,476	-10.3
FOREIGN, OTHER, OR UNKNOWN	17,879	19,686	10.1	12,215	12,811	4.9

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-10. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-81

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL AREAS:					
TOTAL, ALL SOURCES	242,391	249,169	253,428	2.8	1.7
FEDERAL, TOTAL	54,453	54,521	52,073	.1	-4.5
DEPT OF DEFENSE	5,038	5,286	5,657	4.9	7.0
DEPT OF HHS, TOTAL	23,279	19,958	18,349	-14.3	-8.1
NIH	11,834	11,772	11,327	-.5	-3.8
OTHER HHS	11,445	8,186	7,022	-28.5	-14.2
NSF	9,376	9,352	9,154	-.3	-2.1
ALL OTHER FEDERAL	16,760	19,925	18,913	18.9	-5.1
INSTITUTIONAL SUPPORT	86,681	90,518	94,205	4.4	4.1
OTHER OUTSIDE SUPPORT, TOTAL	20,995	21,846	23,059	4.1	5.6
ALL OTHER U.S.	13,158	13,498	14,179	2.6	5.0
FOREIGN	7,837	8,348	8,880	6.5	6.4
SELF-SUPPORT	80,262	82,284	84,091	2.5	2.2
ENGINEERING:					
TOTAL, ALL SOURCES	40,974	43,607	46,661	6.4	7.0
FEDERAL, TOTAL	11,049	11,375	11,094	3.0	-2.5
DEPT OF DEFENSE	2,665	2,910	3,099	9.2	6.5
DEPT OF HHS, TOTAL	1,111	713	575	-35.8	-19.4
NIH	526	515	431	-2.1	-16.3
OTHER HHS	585	198	144	-66.2	-27.3
NSF	2,416	2,417	2,350	*	-2.8
ALL OTHER FEDERAL	4,857	5,335	5,070	9.8	-5.0
INSTITUTIONAL SUPPORT	11,846	12,940	14,584	9.2	12.7
OTHER OUTSIDE SUPPORT, TOTAL	5,806	6,372	7,052	9.7	10.7
ALL OTHER U.S.	3,772	4,263	4,820	13.0	13.1
FOREIGN	2,034	2,109	2,232	3.7	5.8
SELF-SUPPORT	12,273	12,920	13,931	5.3	7.8
PHYSICAL SCIENCES:					
TOTAL, ALL SOURCES	22,526	22,937	23,354	1.8	1.8
FEDERAL, TOTAL	7,495	7,742	7,997	3.3	3.3
DEPT OF DEFENSE	651	696	796	6.9	14.4
DEPT OF HHS, TOTAL	1,609	1,650	1,539	2.5	-6.7
NIH	1,437	1,556	1,432	8.3	-8.0
OTHER HHS	172	94	107	-45.3	13.8
NSF	2,971	2,887	3,034	-2.8	5.1
ALL OTHER FEDERAL	2,264	2,509	2,628	10.8	4.7
INSTITUTIONAL SUPPORT	11,906	12,334	12,341	3.6	.1
OTHER OUTSIDE SUPPORT, TOTAL	1,516	1,342	1,460	-11.5	8.8
ALL OTHER U.S.	1,114	975	1,087	-12.5	11.5
FOREIGN	402	367	373	-8.7	1.6
SELF-SUPPORT	1,609	1,519	1,556	-5.6	2.4
ENVIRONMENTAL SCIENCES:					
TOTAL, ALL SOURCES	10,371	10,647	10,880	2.7	2.2
FEDERAL, TOTAL	3,381	3,324	2,909	-1.7	-12.5
DEPT OF DEFENSE	324	293	304	-9.6	3.8
DEPT OF HHS, TOTAL	224	74	58	-67.0	-21.6
NIH	18	28	20	55.6	-28.6
OTHER HHS	206	46	38	-77.7	-17.4
NSF	1,282	1,252	1,204	-2.3	-3.8
ALL OTHER FEDERAL	1,551	1,705	1,343	9.9	-21.2
INSTITUTIONAL SUPPORT	3,619	3,751	4,005	3.6	6.8
OTHER OUTSIDE SUPPORT, TOTAL	839	1,031	1,142	22.9	10.8
ALL OTHER U.S.	518	672	771	29.7	14.7
FOREIGN	321	359	371	11.8	3.3
SELF-SUPPORT	2,532	2,541	2,824	.4	11.1
MATHEMATICAL/COMPUTER SCIENCES:					
TOTAL, ALL SOURCES	15,489	16,456	17,726	6.2	7.7
FEDERAL, TOTAL	1,651	1,817	1,796	10.1	-1.2
DEPT OF DEFENSE	608	626	732	3.0	16.9
DEPT OF HHS, TOTAL	146	130	81	-11.0	-37.7
NIH	102	100	68	-2.0	-32.0
OTHER HHS	44	30	13	-31.8	-56.7
NSF	586	593	606	1.2	2.2
ALL OTHER FEDERAL	311	468	377	50.5	-19.4
INSTITUTIONAL SUPPORT	8,330	8,659	9,083	3.9	4.9
OTHER OUTSIDE SUPPORT, TOTAL	1,093	1,155	1,205	5.7	4.3
ALL OTHER U.S.	602	652	635	8.3	-2.6
FOREIGN	491	503	570	2.4	13.3
SELF-SUPPORT	4,415	4,825	5,642	9.3	16.9

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TABLE B-10. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-81

- CONTINUED

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
AGRICULTURAL SCIENCES:					
TOTAL, ALL SOURCES	9,828	10,016	10,048	1.9	0.3
FEDERAL, TOTAL	1,793	1,824	1,741	1.7	-4.6
DEPT OF DEFENSE	16	11	11	-31.3	.0
DEPT OF HHS, TOTAL	107	124	59	15.9	-52.4
NIH	72	110	53	52.8	-51.8
OTHER HHS	35	14	6	-60.0	-57.1
NSF	76	85	70	11.8	-17.6
ALL OTHER FEDERAL	1,594	1,604	1,601	.6	-.2
INSTITUTIONAL SUPPORT	3,461	3,414	3,471	-1.4	1.7
OTHER OUTSIDE SUPPORT, TOTAL	1,829	2,080	2,166	13.7	4.1
ALL OTHER U.S.	815	941	952	15.5	1.2
FOREIGN	1,014	1,139	1,214	12.3	6.6
SELF-SUPPORT	2,745	2,698	2,670	-1.7	-1.0
BIOLOGICAL SCIENCES:					
TOTAL, ALL SOURCES	37,881	37,535	37,138	-.9	-1.1
FEDERAL, TOTAL	10,997	10,815	10,591	-1.7	-2.1
DEPT OF DEFENSE	126	157	101	24.6	-35.7
DEPT OF HHS, TOTAL	7,610	7,230	7,187	-5.0	-.6
NIH	7,024	6,832	6,756	-2.7	-1.1
OTHER HHS	586	398	431	-32.1	8.3
NSF	1,183	1,230	1,144	4.0	-7.0
ALL OTHER FEDERAL	2,078	2,198	2,159	5.8	-1.8
INSTITUTIONAL SUPPORT	15,759	16,204	16,297	2.8	.6
OTHER OUTSIDE SUPPORT, TOTAL	2,907	2,724	2,733	-6.3	.3
ALL OTHER U.S.	1,823	1,755	1,668	-3.7	-5.0
FOREIGN	1,084	969	1,065	-10.6	9.9
SELF-SUPPORT	8,218	7,792	7,517	-5.2	-3.5
HEALTH SCIENCES:					
TOTAL, ALL SOURCES	23,566	24,949	25,350	5.9	1.6
FEDERAL, TOTAL	8,461	8,690	8,157	2.7	-6.1
DEPT OF DEFENSE	188	177	204	-5.9	15.3
DEPT OF HHS, TOTAL	7,486	6,486	5,827	-13.4	-10.2
NIH	1,001	994	1,100	-.7	10.7
OTHER HHS	6,485	5,492	4,727	-15.3	-13.9
NSF	55	53	36	-3.6	-32.1
ALL OTHER FEDERAL	732	1,974	2,090	169.7	5.9
INSTITUTIONAL SUPPORT	4,435	4,958	4,859	11.8	-2.0
OTHER OUTSIDE SUPPORT, TOTAL	1,371	1,353	1,389	-1.3	2.7
ALL OTHER U.S.	849	822	904	-3.2	10.0
FOREIGN	522	531	485	1.7	-8.7
SELF-SUPPORT	9,299	9,948	10,945	7.0	10.0
PSYCHOLOGY:					
TOTAL, ALL SOURCES	25,822	26,673	26,697	3.3	.1
FEDERAL, TOTAL	3,597	3,384	3,050	-5.9	-9.9
DEPT OF DEFENSE	150	131	144	-12.7	9.9
DEPT OF HHS, TOTAL	2,534	1,926	1,662	-24.0	-13.7
NIH	1,096	1,042	925	-4.9	-11.2
OTHER HHS	1,438	884	737	-38.5	-16.6
NSF	261	290	246	11.1	-15.2
ALL OTHER FEDERAL	652	1,037	998	59.0	-3.8
INSTITUTIONAL SUPPORT	8,184	8,555	9,423	4.5	10.1
OTHER OUTSIDE SUPPORT, TOTAL	1,482	1,512	1,512	2.0	.0
ALL OTHER U.S.	1,358	1,374	1,420	1.2	3.3
FOREIGN	124	138	92	11.3	-33.3
SELF-SUPPORT	12,559	13,222	12,712	5.3	-3.9
SOCIAL SCIENCES:					
TOTAL, ALL SOURCES	55,934	56,349	55,574	.7	-1.4
FEDERAL, TOTAL	6,029	5,550	4,738	-7.9	-14.6
DEPT OF DEFENSE	310	285	266	-8.1	-6.7
DEPT OF HHS, TOTAL	2,452	1,625	1,361	-33.7	-16.2
NIH	558	595	542	6.6	-8.9
OTHER HHS	1,894	1,030	819	-45.6	-20.5
NSF	546	545	464	-.2	-14.9
ALL OTHER FEDERAL	2,721	3,095	2,647	13.7	-14.5
INSTITUTIONAL SUPPORT	19,141	19,703	20,142	2.9	2.2
OTHER OUTSIDE SUPPORT, TOTAL	4,152	4,277	4,400	3.0	2.9
ALL OTHER U.S.	2,307	2,044	1,922	-11.4	-6.0
FOREIGN	1,845	2,233	2,478	21.0	11.0
SELF-SUPPORT	26,612	26,819	26,294	.8	-2.0

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-11. -- MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-81

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL AREAS:					
TOTAL, ALL SOURCES	163,515	164,833	165,222	0.8	0.2
FEDERAL, TOTAL	37,452	36,910	35,210	-1.4	-4.6
DEPT OF DEFENSE	4,622	4,816	5,170	4.2	7.4
DEPT OF HHS, TOTAL	11,612	9,845	9,025	-15.2	-8.3
NIH	7,718	7,569	7,121	-1.9	-5.9
OTHER HHS	3,894	2,276	1,904	-41.6	-16.3
NSF	7,839	7,738	7,482	-1.3	-3.3
ALL OTHER FEDERAL	13,379	14,511	13,533	8.5	-6.7
INSTITUTIONAL SUPPORT	60,572	62,252	63,781	2.8	2.5
OTHER OUTSIDE SUPPORT, TOTAL	16,270	16,967	18,012	4.3	6.2
ALL OTHER U.S.	9,497	9,871	10,432	3.9	5.7
FOREIGN	6,773	7,096	7,580	4.8	6.8
SELF-SUPPORT	49,221	48,704	48,219	-1.1	-1.0
ENGINEERING:					
TOTAL, ALL SOURCES	37,294	39,473	41,782	5.8	5.8
FEDERAL, TOTAL	10,255	10,489	10,190	2.3	-2.9
DEPT OF DEFENSE	2,582	2,768	2,964	7.2	7.1
DEPT OF HHS, TOTAL	946	584	464	-38.3	-20.5
NIH	454	430	368	-5.3	-14.4
OTHER HHS	492	154	96	-68.7	-37.7
NSF	2,260	2,249	2,169	-.5	-3.6
ALL OTHER FEDERAL	4,467	4,888	4,593	9.4	-6.0
INSTITUTIONAL SUPPORT	10,689	11,660	13,040	9.1	11.8
OTHER OUTSIDE SUPPORT, TOTAL	5,358	5,822	6,426	8.7	10.4
ALL OTHER U.S.	3,409	3,806	4,309	11.6	13.2
FOREIGN	1,949	2,016	2,117	3.4	5.0
SELF-SUPPORT	10,992	11,502	12,126	4.6	5.4
PHYSICAL SCIENCES:					
TOTAL, ALL SOURCES	19,036	19,236	19,318	1.1	.4
FEDERAL, TOTAL	6,538	6,710	6,829	2.6	1.8
DEPT OF DEFENSE	581	637	723	9.6	13.5
DEPT OF HHS, TOTAL	1,281	1,325	1,205	3.4	-9.1
NIH	1,156	1,257	1,117	8.7	-11.1
OTHER HHS	125	68	88	-45.6	29.4
NSF	2,640	2,550	2,613	-3.4	2.5
ALL OTHER FEDERAL	2,036	2,198	2,288	8.0	4.1
INSTITUTIONAL SUPPORT	9,342	10,085	9,995	2.5	-.9
OTHER OUTSIDE SUPPORT, TOTAL	1,298	1,128	1,216	-13.1	7.8
ALL OTHER U.S.	948	821	894	-13.4	8.9
FOREIGN	350	307	322	-12.3	4.9
SELF-SUPPORT	1,358	1,313	1,278	-3.3	-2.7
ENVIRONMENTAL SCIENCES:					
TOTAL, ALL SOURCES	8,198	8,221	8,293	.3	.9
FEDERAL, TOTAL	2,733	2,629	2,241	-3.8	-14.8
DEPT OF DEFENSE	283	256	259	-9.5	1.2
DEPT OF HHS, TOTAL	156	45	36	-71.2	-20.0
NIH	14	19	13	35.7	-31.6
OTHER HHS	142	26	23	-81.7	-11.5
NSF	1,039	989	919	-4.8	-7.1
ALL OTHER FEDERAL	1,255	1,339	1,027	6.7	-23.3
INSTITUTIONAL SUPPORT	2,755	2,791	2,967	1.3	6.3
OTHER OUTSIDE SUPPORT, TOTAL	709	853	923	20.3	8.2
ALL OTHER U.S.	410	528	589	28.8	11.6
FOREIGN	299	325	334	8.7	2.8
SELF-SUPPORT	2,001	1,948	2,162	-2.6	11.0
MATHEMATICAL/COMPUTER SCIENCES:					
TOTAL, ALL SOURCES	12,283	12,754	13,412	3.8	5.2
FEDERAL, TOTAL	1,445	1,580	1,555	9.3	-1.6
DEPT OF DEFENSE	559	584	678	4.5	16.1
DEPT OF HHS, TOTAL	106	96	69	-9.4	-28.1
NIH	83	79	62	-4.8	-21.5
OTHER HHS	23	17	7	-26.1	-58.8
NSF	509	509	514	.0	1.0
ALL OTHER FEDERAL	271	391	294	44.3	-24.8
INSTITUTIONAL SUPPORT	6,477	6,672	6,778	3.0	1.6
OTHER OUTSIDE SUPPORT, TOTAL	877	933	988	6.4	5.9
ALL OTHER U.S.	468	519	509	10.9	-1.9
FOREIGN	409	414	479	1.2	15.7
SELF-SUPPORT	3,484	3,569	4,091	2.4	14.6

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TABLE B-11. -- MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-81

- CONTINUED

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
AGRICULTURAL SCIENCES:					
TOTAL, ALL SOURCES	7,678	7,671	7,708	-0.1	0.5
FEDERAL, TOTAL	1,447	1,405	1,341	-2.9	-4.6
DEPT OF DEFENSE	14	10	9	-28.6	-10.0
DEPT OF HHS, TOTAL	74	79	36	6.8	-54.4
NIH	55	74	35	34.5	-52.7
OTHER HHS	19	5	1	-73.7	-80.0
NSF	52	70	57	34.6	-18.6
ALL OTHER FEDERAL	1,307	1,246	1,239	-4.7	-.6
INSTITUTIONAL SUPPORT	2,595	2,517	2,509	-3.0	-.3
OTHER OUTSIDE SUPPORT, TOTAL	1,611	1,794	1,875	11.4	4.5
ALL OTHER U.S.	678	742	751	9.4	1.2
FOREIGN	933	1,052	1,124	12.8	6.8
SELF-SUPPORT	2,025	1,955	1,983	-3.5	1.4
BIOLOGICAL SCIENCES:					
TOTAL, ALL SOURCES	24,330	23,654	23,049	-2.8	-2.6
FEDERAL, TOTAL	7,193	6,967	6,819	-3.1	-2.1
DEPT OF DEFENSE	96	111	82	15.6	-26.1
DEPT OF HHS, TOTAL	4,869	4,585	4,563	-5.8	-.5
NIH	4,555	4,379	4,283	-3.9	-2.2
OTHER HHS	314	206	280	-34.4	35.9
NSF	814	818	777	.5	-5.0
ALL OTHER FEDERAL	1,414	1,453	1,397	2.8	-3.9
INSTITUTIONAL SUPPORT	10,131	10,225	9,899	.9	-3.2
OTHER OUTSIDE SUPPORT, TOTAL	2,023	1,898	1,956	-6.2	3.1
ALL OTHER U.S.	1,184	1,136	1,111	-4.1	-2.2
FOREIGN	839	762	845	-9.2	10.9
SELF-SUPPORT	4,983	4,564	4,375	-8.4	-4.1
HEALTH SCIENCES:					
TOTAL, ALL SOURCES	8,195	8,325	8,058	1.6	-3.2
FEDERAL, TOTAL	2,466	2,395	2,128	-2.9	-11.1
DEPT OF DEFENSE	128	122	126	-4.7	3.3
DEPT OF HHS, TOTAL	1,933	1,637	1,434	-15.3	-12.4
NIH	655	609	586	-7.0	-3.8
OTHER HHS	1,278	1,028	848	-19.6	-17.5
NSF	32	35	21	9.4	-40.0
ALL OTHER FEDERAL	373	601	547	61.1	-9.0
INSTITUTIONAL SUPPORT	2,099	2,255	2,181	7.4	-3.3
OTHER OUTSIDE SUPPORT, TOTAL	712	749	762	5.2	1.7
ALL OTHER U.S.	358	397	415	10.9	4.5
FOREIGN	354	352	347	-.6	-1.4
SELF-SUPPORT	2,918	2,926	2,987	.3	2.1
PSYCHOLOGY:					
TOTAL, ALL SOURCES	13,259	12,776	12,058	-3.6	-5.6
FEDERAL, TOTAL	1,901	1,678	1,511	-11.7	-10.0
DEPT OF DEFENSE	106	89	100	-16.0	12.4
DEPT OF HHS, TOTAL	1,242	902	761	-27.4	-15.6
NIH	522	501	434	-4.0	-13.4
OTHER HHS	720	401	327	-44.3	-18.5
NSF	144	161	125	11.8	-22.4
ALL OTHER FEDERAL	409	526	525	28.6	-.2
INSTITUTIONAL SUPPORT	4,260	4,252	4,439	-.2	4.4
OTHER OUTSIDE SUPPORT, TOTAL	781	743	777	-4.9	4.6
ALL OTHER U.S.	705	671	738	-4.8	10.0
FOREIGN	76	72	39	-5.3	-45.8
SELF-SUPPORT	6,317	6,103	5,331	-3.4	-12.6
SOCIAL SCIENCES:					
TOTAL, ALL SOURCES	33,242	32,723	31,544	-1.6	-3.6
FEDERAL, TOTAL	3,474	3,057	2,596	-12.0	-15.1
DEPT OF DEFENSE	273	239	229	-12.5	-4.2
DEPT OF HHS, TOTAL	1,005	592	457	-41.1	-22.8
NIH	224	221	223	-1.3	.9
OTHER HHS	781	371	234	-52.5	-36.9
NSF	349	357	287	2.3	-19.6
ALL OTHER FEDERAL	1,847	1,869	1,623	1.2	-13.2
INSTITUTIONAL SUPPORT	11,724	11,795	11,973	.6	1.5
OTHER OUTSIDE SUPPORT, TOTAL	2,901	3,047	3,089	5.0	1.4
ALL OTHER U.S.	1,337	1,251	1,116	-6.4	-10.8
FOREIGN	1,564	1,796	1,973	14.8	9.9
SELF-SUPPORT	15,143	14,824	13,886	-2.1	-6.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-12. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-81

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL AREAS:					
TOTAL, ALL SOURCES	78,876	84,336	88,206	6.9	4.6
FEDERAL, TOTAL	17,001	17,611	16,863	3.6	-4.2
DEPT OF DEFENSE	416	470	487	13.0	3.6
DEPT OF HHS, TOTAL	11,667	10,113	9,324	-13.3	-7.8
NIH	4,116	4,203	4,206	2.1	.1
OTHER HHS	7,551	5,910	5,118	-21.7	-13.4
NSF	1,537	1,614	1,672	5.0	3.6
ALL OTHER FEDERAL	3,381	5,414	5,380	60.1	-.6
INSTITUTIONAL SUPPORT	26,109	28,266	30,424	8.3	7.6
OTHER OUTSIDE SUPPORT, TOTAL	4,725	4,879	5,047	3.3	3.4
ALL OTHER U.S.	3,661	3,627	3,747	-.9	3.3
FOREIGN	1,064	1,252	1,300	17.7	3.8
SELF-SUPPORT	31,041	33,580	35,872	8.2	6.8
ENGINEERING:					
TOTAL, ALL SOURCES	3,680	4,134	4,879	12.3	18.0
FEDERAL, TOTAL	794	886	904	11.6	2.0
DEPT OF DEFENSE	83	142	135	71.1	-4.9
DEPT OF HHS, TOTAL	165	129	111	-21.8	-14.0
NIH	72	85	63	18.1	-25.9
OTHER HHS	93	44	48	-52.7	9.1
NSF	156	168	181	7.7	7.7
ALL OTHER FEDERAL	390	447	477	14.6	6.7
INSTITUTIONAL SUPPORT	1,157	1,280	1,544	10.6	20.6
OTHER OUTSIDE SUPPORT, TOTAL	448	550	626	22.8	13.8
ALL OTHER U.S.	363	457	511	25.9	11.8
FOREIGN	85	93	115	9.4	23.7
SELF-SUPPORT	1,281	1,418	1,805	10.7	27.3
PHYSICAL SCIENCES:					
TOTAL, ALL SOURCES	3,490	3,701	4,036	6.0	9.1
FEDERAL, TOTAL	957	1,032	1,168	7.8	13.2
DEPT OF DEFENSE	70	59	73	-15.7	23.7
DEPT OF HHS, TOTAL	328	325	334	-.9	2.8
NIH	281	299	315	6.4	5.4
OTHER HHS	47	26	19	-44.7	-26.9
NSF	331	337	421	1.8	24.9
ALL OTHER FEDERAL	228	311	340	36.4	9.3
INSTITUTIONAL SUPPORT	2,064	2,249	2,346	9.0	4.3
OTHER OUTSIDE SUPPORT, TOTAL	218	214	244	-1.8	14.0
ALL OTHER U.S.	166	154	193	-7.2	25.3
FOREIGN	52	60	51	15.4	-15.0
SELF-SUPPORT	251	206	278	-17.9	35.0
ENVIRONMENTAL SCIENCES:					
TOTAL, ALL SOURCES	2,173	2,426	2,587	11.6	6.6
FEDERAL, TOTAL	648	695	668	7.3	-3.9
DEPT OF DEFENSE	41	37	45	-9.8	21.6
DEPT OF HHS, TOTAL	68	29	22	-57.4	-24.1
NIH	4	9	7	125.0	-22.2
OTHER HHS	64	20	15	-68.8	-25.0
NSF	243	263	285	8.2	8.4
ALL OTHER FEDERAL	296	366	316	23.6	-13.7
INSTITUTIONAL SUPPORT	864	960	1,038	11.1	8.1
OTHER OUTSIDE SUPPORT, TOTAL	130	178	219	36.9	23.0
ALL OTHER U.S.	108	144	182	33.3	26.4
FOREIGN	22	34	37	54.5	8.8
SELF-SUPPORT	531	593	662	11.7	11.6
MATHEMATICAL/COMPUTER SCIENCES:					
TOTAL, ALL SOURCES	3,206	3,702	4,314	15.5	16.5
FEDERAL, TOTAL	206	237	241	15.0	1.7
DEPT OF DEFENSE	49	42	54	-14.3	28.6
DEPT OF HHS, TOTAL	40	34	12	-15.0	-64.7
NIH	19	21	6	10.5	-71.4
OTHER HHS	21	13	6	-38.1	-53.8
NSF	77	84	92	9.1	9.5
ALL OTHER FEDERAL	40	77	83	92.5	7.8
INSTITUTIONAL SUPPORT	1,853	1,987	2,305	7.2	16.0
OTHER OUTSIDE SUPPORT, TOTAL	216	222	217	2.8	-2.3
ALL OTHER U.S.	134	133	126	-.7	-5.3
FOREIGN	82	89	91	8.5	2.2
SELF-SUPPORT	931	1,256	1,551	34.9	23.5

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TABLE B-12. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-81

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
AGRICULTURAL SCIENCES:					
TOTAL, ALL SOURCES	2,150	2,345	2,340	9.1	-0.2
FEDERAL, TOTAL	346	419	400	21.1	-4.5
DEPT OF DEFENSE	2	1	2	-50.0	100.0
DEPT OF HHS, TOTAL	33	45	23	36.4	-48.9
NIH	17	36	18	111.8	-50.0
OTHER HHS	16	9	5	-43.8	-44.4
NSF	24	15	13	-37.5	-13.3
ALL OTHER FEDERAL	287	358	362	24.7	1.1
INSTITUTIONAL SUPPORT	866	897	962	3.6	7.2
OTHER OUTSIDE SUPPORT, TOTAL	218	286	291	31.2	1.7
ALL OTHER U.S.	137	199	201	45.3	1.0
FOREIGN	81	87	90	7.4	3.4
SELF-SUPPORT	720	743	687	3.2	-7.5
BIOLOGICAL SCIENCES:					
TOTAL, ALL SOURCES	13,551	13,881	14,089	2.4	1.5
FEDERAL, TOTAL	3,804	3,848	3,772	1.2	-2.0
DEPT OF DEFENSE	30	46	19	53.3	-58.7
DEPT OF HHS, TOTAL	2,741	2,645	2,624	-3.5	-.8
NIH	2,469	2,453	2,473	-.6	.8
OTHER HHS	272	192	151	-29.4	-21.4
NSF	369	412	367	11.7	-10.9
ALL OTHER FEDERAL	664	745	762	12.2	2.3
INSTITUTIONAL SUPPORT	5,628	5,979	6,398	6.2	7.0
OTHER OUTSIDE SUPPORT, TOTAL	884	826	777	-6.6	-5.9
ALL OTHER U.S.	639	619	557	-3.1	-10.0
FOREIGN	245	207	220	-15.5	6.3
SELF-SUPPORT	3,235	3,228	3,142	-.2	-2.7
HEALTH SCIENCES:					
TOTAL, ALL SOURCES	15,371	16,624	17,292	8.2	4.0
FEDERAL, TOTAL	5,995	6,295	6,029	5.0	-4.2
DEPT OF DEFENSE	60	55	78	-8.3	41.8
DEPT OF HHS, TOTAL	5,553	4,849	4,393	-12.7	-9.4
NIH	346	385	514	11.3	33.5
OTHER HHS	5,207	4,464	3,879	-14.3	-13.1
NSF	23	18	15	-21.7	-16.7
ALL OTHER FEDERAL	359	1,373	1,543	282.5	12.4
INSTITUTIONAL SUPPORT	2,336	2,703	2,678	15.7	-.9
OTHER OUTSIDE SUPPORT, TOTAL	659	604	627	-8.3	3.8
ALL OTHER U.S.	491	425	489	-13.4	15.1
FOREIGN	168	179	138	6.5	-22.9
SELF-SUPPORT	6,381	7,022	7,958	10.0	13.3
PSYCHOLOGY:					
TOTAL, ALL SOURCES	12,563	13,897	14,639	10.6	5.3
FEDERAL, TOTAL	1,696	1,706	1,539	.6	-9.8
DEPT OF DEFENSE	44	42	44	-4.5	4.8
DEPT OF HHS, TOTAL	1,292	1,024	901	-20.7	-12.0
NIH	574	541	491	-5.7	-9.2
OTHER HHS	718	483	410	-32.7	-15.1
NSF	117	129	121	10.3	-6.2
ALL OTHER FEDERAL	243	511	473	110.3	-7.4
INSTITUTIONAL SUPPORT	3,924	4,303	4,984	9.7	15.8
OTHER OUTSIDE SUPPORT, TOTAL	701	769	735	9.7	-4.4
ALL OTHER U.S.	653	703	682	7.7	-3.0
FOREIGN	48	66	53	37.5	-19.7
SELF-SUPPORT	6,242	7,119	7,381	14.0	3.7
SOCIAL SCIENCES:					
TOTAL, ALL SOURCES	22,692	23,626	24,030	4.1	1.7
FEDERAL, TOTAL	2,555	2,493	2,142	-2.4	-14.1
DEPT OF DEFENSE	37	46	37	24.3	-19.6
DEPT OF HHS, TOTAL	1,447	1,033	904	-28.6	-12.5
NIH	334	374	319	12.0	-14.7
OTHER HHS	1,113	659	585	-40.8	-11.2
NSF	197	188	177	-4.6	-5.9
ALL OTHER FEDERAL	874	1,226	1,024	40.3	-16.5
INSTITUTIONAL SUPPORT	7,417	7,908	8,169	6.6	3.3
OTHER OUTSIDE SUPPORT, TOTAL	1,251	1,230	1,311	-1.7	6.6
ALL OTHER U.S.	970	793	806	-18.2	1.6
FOREIGN	281	437	505	55.5	15.6
SELF-SUPPORT	11,469	11,995	12,408	4.6	3.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-13.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY TYPE AND SOURCE OF MAJOR SUPPORT: 1979-81

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL TYPES:					
TOTAL, ALL SOURCES	242,391	249,169	253,428	2.8	1.7
FEDERAL, TOTAL	54,453	54,521	52,073	.1	-4.5
DEPT OF DEFENSE	5,038	5,286	5,657	4.9	7.0
DEPT OF HHS, TOTAL	23,279	19,958	18,349	-14.3	-8.1
NIH	11,834	11,772	11,327	-.5	-3.8
OTHER HHS	11,445	8,186	7,022	-28.5	-14.2
NSF	9,376	9,352	9,154	-.3	-2.1
ALL OTHER FEDERAL	16,760	19,925	18,913	18.9	-5.1
INSTITUTIONAL SUPPORT	86,681	90,518	94,205	4.4	4.1
OTHER OUTSIDE SUPPORT, TOTAL	20,995	21,846	23,059	4.1	5.6
ALL OTHER U.S.	13,158	13,498	14,179	2.6	5.0
FOREIGN	7,837	8,348	8,880	6.5	6.4
SELF-SUPPORT	80,262	82,284	84,091	2.5	2.2
FELLOWSHIPS AND TRAINEESHIPS:					
TOTAL, ALL SOURCES	40,305	40,064	38,647	-.6	-3.5
FEDERAL, TOTAL	19,951	19,124	17,240	-4.1	-9.9
DEPT OF DEFENSE	282	330	267	17.0	-19.1
DEPT OF HHS, TOTAL	15,954	13,069	11,722	-18.1	-10.3
NIH	6,310	5,923	5,582	-6.1	-5.8
OTHER HHS	9,644	7,146	6,140	-25.9	-14.1
NSF	1,629	1,578	1,407	-3.1	-10.8
ALL OTHER FEDERAL	2,086	4,147	3,844	98.8	-7.3
INSTITUTIONAL SUPPORT	13,127	13,126	13,393	*	2.0
OTHER OUTSIDE SUPPORT, TOTAL	7,227	7,814	8,014	8.1	2.6
ALL OTHER U.S.	3,953	4,068	4,075	2.9	.2
FOREIGN	3,274	3,746	3,939	14.4	5.2
SELF-SUPPORT	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:					
TOTAL, ALL SOURCES	49,426	51,955	53,174	5.1	2.3
FEDERAL, TOTAL	28,129	29,395	29,148	4.5	-.8
DEPT OF DEFENSE	2,802	2,934	3,280	4.7	11.8
DEPT OF HHS, TOTAL	6,223	6,062	6,049	-2.6	-.2
NIH	5,066	5,459	5,440	7.8	-.3
OTHER HHS	1,157	603	609	-47.9	1.0
NSF	7,508	7,630	7,586	1.6	-.6
ALL OTHER FEDERAL	11,596	12,769	12,233	10.1	-4.2
INSTITUTIONAL SUPPORT	15,692	16,689	17,675	6.4	5.9
OTHER OUTSIDE SUPPORT, TOTAL	5,605	5,871	6,351	4.7	8.2
ALL OTHER U.S.	4,918	5,321	5,738	8.2	7.8
FOREIGN	687	550	613	-19.9	11.5
SELF-SUPPORT	0	0	0	0	0
TEACHING ASSISTANTSHIPS:					
TOTAL, ALL SOURCES	52,033	54,134	55,999	4.0	3.4
FEDERAL, TOTAL	609	680	641	11.7	-5.7
DEPT OF DEFENSE	0	0	0	0	0
DEPT OF HHS, TOTAL	252	145	116	-42.5	-20.0
NIH	116	83	74	-28.4	-10.8
OTHER HHS	136	62	42	-54.4	-32.3
NSF	36	37	61	2.8	64.9
ALL OTHER FEDERAL	321	498	464	55.1	-6.8
INSTITUTIONAL SUPPORT	51,018	53,114	54,940	4.1	3.4
OTHER OUTSIDE SUPPORT, TOTAL	406	340	418	-16.3	22.9
ALL OTHER U.S.	406	340	418	-16.3	22.9
FOREIGN	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0
OTHER TYPES OF SUPPORT:					
TOTAL, ALL SOURCES	100,627	103,016	105,608	2.4	2.5
FEDERAL, TOTAL	5,764	5,322	5,044	-7.7	-5.2
DEPT OF DEFENSE	1,954	2,022	2,110	3.5	4.4
DEPT OF HHS, TOTAL	850	682	462	-19.8	-32.3
NIH	342	307	231	-10.2	-24.8
OTHER HHS	508	375	231	-26.2	-38.4
NSF	203	107	100	-47.3	-6.5
ALL OTHER FEDERAL	2,757	2,511	2,372	-8.9	-5.5
INSTITUTIONAL SUPPORT	6,844	7,589	8,197	10.9	8.0
OTHER OUTSIDE SUPPORT, TOTAL	7,757	7,821	8,276	.8	5.8
ALL OTHER U.S.	3,881	3,769	3,948	-2.9	4.7
FOREIGN	3,876	4,052	4,328	4.5	6.8
SELF-SUPPORT	80,262	82,284	84,091	2.5	2.2

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-14.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FELLOWSHIPS AND TRAINEESHIPS IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	40,305	40,064	38,647	-0.6	-3.5
ENGINEERING	4,548	4,770	5,110	4.9	7.1
AEROSPACE	90	105	130	16.7	23.8
AGRICULTURAL	73	85	47	16.4	-44.7
BIOMEDICAL	192	152	143	-20.8	-5.9
CHEMICAL	728	752	830	3.3	10.4
CIVIL	712	693	755	-2.7	8.9
ELECTRICAL	761	871	994	14.5	14.1
ENGINEERING SCIENCE	166	172	214	3.6	24.4
INDUSTRIAL	363	289	305	-20.4	5.5
MECHANICAL	562	594	654	5.7	10.1
METALLURGICAL/MATERIALS	266	319	297	19.9	-6.9
MINING	152	117	105	-23.0	-10.3
NUCLEAR	128	165	148	28.9	-10.3
PETROLEUM	77	89	73	15.6	-18.0
ENGINEERING, N.E.C.	278	367	415	32.0	13.1
PHYSICAL SCIENCES	2,330	2,212	2,356	-5.1	6.5
ASTRONOMY	95	103	72	8.4	-30.1
CHEMISTRY	1,460	1,303	1,468	-10.8	12.7
PHYSICS	769	795	811	3.4	2.0
PHYSICAL SCIENCES, N.E.C.	6	11	5	83.3	-54.5
ENVIRONMENTAL SCIENCES	1,027	1,050	1,056	2.2	.6
ATMOSPHERIC SCIENCES	41	30	22	-26.8	-26.7
GEOSCIENCES	665	756	743	13.7	-1.7
OCEANOGRAPHY	157	168	177	7.0	5.4
ENVIRONMENTAL SCIENCES, N.E.C.	164	96	114	-41.5	18.8
MATHEMATICAL/COMPUTER SCIENCES	1,380	1,270	1,293	-8.0	1.8
COMPUTER SCIENCE	437	388	482	-11.2	24.2
MATHEMATICS AND APPLIED MATHEMATICS	784	713	696	-9.1	-2.4
STATISTICS	159	169	115	6.3	-32.0
LIFE SCIENCES	17,500	17,504	16,921	*	-3.3
AGRICULTURAL SCIENCES	733	785	807	7.1	2.8
BIOLOGICAL SCIENCES	8,247	8,167	7,973	-1.0	-2.4
ANATOMY	294	292	298	-.7	2.1
BIOCHEMISTRY	1,074	1,003	952	-6.6	-5.1
BIOLOGY	1,626	1,505	1,361	-7.4	-9.6
BIOMETRY/EPIDEMIOLOGY	346	364	444	5.2	22.0
BIOPHYSICS	217	193	186	-11.1	-3.6
BOTANY	267	231	225	-13.5	-2.6
CELL BIOLOGY	355	446	456	25.6	2.2
ECOLOGY	82	119	126	45.1	5.9
ENTOMOLOGY/PARASITOLOGY	130	154	166	18.5	7.8
GENETICS	336	349	294	3.9	-15.8
MICROBIOLOGY	964	919	828	-4.7	-9.9
NUTRITION	379	385	361	1.6	-6.2
PATHOLOGY	356	355	405	-.3	14.1
PHARMACOLOGY	855	863	887	.9	2.8
PHYSIOLOGY	561	562	528	.2	-6.0
ZOOLOGY	199	200	198	.5	-1.0
BIOSCIENCES, N.E.C.	206	227	258	10.2	13.7
HEALTH SCIENCES	8,520	8,552	8,141	.4	-4.8
ANESTHESIOLOGY	3	0	1	-100.0	**
CANCER/ONCOLOGY	34	34	0	.0	-100.0
CARDIOLOGY	1	11	0	1000.0	-100.0
DENTISTRY	202	174	197	-13.9	13.2
ENDOCRINOLOGY	20	20	20	.0	.0
GASTROENTEROLOGY	0	0	2	**	**
HEMATOLOGY	5	1	2	-80.0	100.0
NEUROLOGY	213	191	193	-10.3	1.0
NURSING	3,730	3,763	3,737	.9	-.7
OBSTETRICS/GYNECOLOGY	20	2	6	-90.0	200.0
OPHTHALMOLOGY	2	10	6	400.0	-40.0
OTORHINOLARYNGOLOGY	14	11	12	-21.4	9.1
PEDIATRICS	53	64	83	20.8	29.7
PHARMACEUTICAL SCIENCES	245	240	273	-2.0	13.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,820	1,958	1,823	7.6	-6.9
PSYCHIATRY	49	37	25	-24.5	-32.4
PULMONARY DISEASE	0	13	9	**	-30.8
RADIOLOGY	84	75	108	-10.7	44.0
SPEECH PATHOLOGY/AUDIOLOGY	1,011	926	869	-8.4	-6.2
SURGERY	34	32	57	-5.9	78.1
VETERINARY SCIENCES	117	123	99	5.1	-19.5
CLINICAL MEDICINE, N.E.C.	113	120	110	6.2	-8.3
HEALTH RELATED, N.E.C.	750	747	509	-.4	-31.9
PSYCHOLOGY	3,790	3,608	3,264	-4.8	-9.5
SOCIAL SCIENCES	9,730	9,650	8,647	-.8	-10.4
AGRICULTURAL ECONOMICS	153	216	198	41.2	-8.3
ANTHROPOLOGY	837	815	739	-2.6	-9.3
ECONOMICS (EXCEPT AGRICULTURAL)	1,375	1,374	1,154	-.1	-16.0
GEOGRAPHY	200	275	193	37.5	-29.8
HISTORY AND PHILOSOPHY OF SCIENCE	68	67	57	-1.5	-14.9
LINGUISTICS	543	383	365	-29.5	-4.7
POLITICAL SCIENCE	2,400	2,768	2,561	15.3	-7.5
SOCIOLOGY	1,190	1,052	1,000	-11.6	-4.9
SOCIOLOGY/ANTHROPOLOGY	103	67	45	-35.0	-32.8
SOCIAL SCIENCES, N.E.C.	2,861	2,633	2,335	-8.0	-11.3

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-15.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED FELLOWSHIPS AND TRAINEESHIPS IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	19,951	19,124	17,240	-4.1	-9.9
ENGINEERING	1,235	1,104	985	-10.6	-10.8
AEROSPACE	16	28	45	75.0	60.7
AGRICULTURAL	9	7	8	-22.2	14.3
BIOMEDICAL	139	113	77	-18.7	-31.9
CHEMICAL	143	142	129	-.7	-9.2
CIVIL	231	235	170	1.7	-27.7
ELECTRICAL	132	111	93	-15.9	-16.2
ENGINEERING SCIENCE	32	37	92	15.6	148.6
INDUSTRIAL	142	54	72	-62.0	33.3
MECHANICAL	98	89	85	-9.2	-4.5
METALLURGICAL/MATERIALS	101	99	70	-2.0	-29.3
MINING	124	77	54	-37.9	-29.9
NUCLEAR	19	28	29	47.4	3.6
PETROLEUM	9	23	7	155.6	-69.6
ENGINEERING, N.E.C.	40	61	54	52.5	-11.5
PHYSICAL SCIENCES	605	538	532	-11.1	-1.1
ASTRONOMY	19	24	13	26.3	-45.8
CHEMISTRY	418	351	374	-16.0	6.6
PHYSICS	168	156	144	-7.1	-7.7
PHYSICAL SCIENCES, N.E.C.	0	7	1	**	-85.7
ENVIRONMENTAL SCIENCES	404	397	302	-1.7	-23.9
ATMOSPHERIC SCIENCES	14	13	9	-7.1	-30.8
GEOSCIENCES	251	291	211	15.9	-27.5
OCEANOGRAPHY	60	58	50	-3.3	-13.8
ENVIRONMENTAL SCIENCES, N.E.C.	79	35	32	-55.7	-8.6
MATHEMATICAL/COMPUTER SCIENCES	235	241	171	2.6	-29.0
COMPUTER SCIENCE	77	99	70	28.6	-29.3
MATHEMATICS AND APPLIED MATHEMATICS	133	127	91	-4.5	-28.3
STATISTICS	25	15	10	-40.0	-33.3
LIFE SCIENCES	12,430	12,149	11,311	-2.3	-6.9
AGRICULTURAL SCIENCES	173	165	129	-4.6	-21.8
BIOLOGICAL SCIENCES	5,203	4,858	4,644	-6.6	-4.4
ANATOMY	159	137	144	-13.8	5.1
BIOCHEMISTRY	674	651	591	-3.4	-9.2
BIOLOGY	954	835	793	-12.5	-5.0
BIOMETRY/EPIDEMIOLOGY	283	303	338	7.1	11.6
BIOPHYSICS	177	155	123	-12.4	-20.6
BOTANY	61	54	66	-11.5	22.2
CELL BIOLOGY	283	330	359	16.6	8.8
ECOLOGY	23	41	45	78.3	9.8
ENTOMOLOGY/PARASITOLOGY	34	47	32	38.2	-31.9
GENETICS	280	256	215	-8.6	-16.0
MICROBIOLOGY	642	542	437	-15.6	-19.4
NUTRITION	185	161	124	-13.0	-23.0
PATHOLOGY	214	214	201	.0	-6.1
PHARMACOLOGY	620	596	590	-3.9	-1.0
PHYSIOLOGY	377	338	330	-10.3	-2.4
ZOOLOGY	131	98	113	-25.2	15.3
BIOSCIENCES, N.E.C.	106	100	143	-5.7	43.0
HEALTH SCIENCES	7,054	7,126	6,538	1.0	-8.3
ANESTHESIOLOGY	0	0	0	**	**
CANCER/ONCOLOGY	33	33	0	.0	-100.0
CARDIOLOGY	1	1	0	.0	-100.0
DENTISTRY	85	75	51	-11.8	-32.0
ENDOCRINOLOGY	7	8	10	14.3	25.0
GASTROENTEROLOGY	0	0	0	**	**
HEMATOLOGY	0	0	2	**	**
NEUROLOGY	145	137	127	-5.5	-7.3
NURSING	3,512	3,595	3,584	2.4	-.3
OBSTETRICS/GYNECOLOGY	12	2	2	-83.3	.0
OPHTHALMOLOGY	2	10	4	400.0	-60.0
OTORHINOLARYNGOLOGY	4	2	2	-50.0	.0
PEDIATRICS	47	46	64	-2.1	39.1
PHARMACEUTICAL SCIENCES	101	83	87	-17.8	4.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,663	1,738	1,559	4.5	-10.3
PSYCHIATRY	25	9	6	-64.0	-33.3
PULMONARY DISEASE	0	2	3	**	50.0
RADIOLOGY	49	47	56	-4.1	19.1
SPEECH PATHOLOGY/AUDIOLOGY	704	654	537	-7.1	-17.9
SURGERY	1	1	9	.0	800.0
VETERINARY SCIENCES	30	24	20	-20.0	-16.7
CLINICAL MEDICINE, N.E.C.	24	44	23	83.3	-47.7
HEALTH RELATED, N.E.C.	609	615	392	1.0	-36.3
PSYCHOLOGY	2,007	1,838	1,498	-8.4	-18.5
SOCIAL SCIENCES	3,035	2,857	2,441	-5.9	-14.6
AGRICULTURAL ECONOMICS	40	50	56	25.0	12.0
ANTHROPOLOGY	278	261	222	-6.1	-14.9
ECONOMICS (EXCEPT AGRICULTURAL)	190	195	168	2.6	-13.8
GEOGRAPHY	31	35	23	12.9	-34.3
HISTORY AND PHILOSOPHY OF SCIENCE	13	14	4	7.7	-71.4
LINGUISTICS	77	79	89	2.6	12.7
POLITICAL SCIENCE	611	495	413	-19.0	-16.6
SOCIOLOGY	367	317	268	-13.6	-15.5
SOCIOLOGY/ANTHROPOLOGY	29	26	6	-10.3	-76.9
SOCIAL SCIENCES, N.E.C.	1,399	1,385	1,192	-1.0	-13.9

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-16.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED FELLOWSHIPS AND TRAINEESHIPS IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	20,354	20,940	21,407	2.9	2.2
ENGINEERING	3,313	3,666	4,125	10.7	12.5
AEROSPACE	74	77	85	4.1	10.4
AGRICULTURAL	64	78	39	21.9	-50.0
BIOMEDICAL	53	39	66	-26.4	69.2
CHEMICAL	585	610	701	4.3	14.9
CIVIL	481	458	585	-4.8	27.7
ELECTRICAL	629	760	901	20.8	18.6
ENGINEERING SCIENCE	134	135	122	.7	-9.6
INDUSTRIAL	221	235	233	6.3	-.9
MECHANICAL	464	505	569	8.8	12.7
METALLURGICAL/MATERIALS	165	220	227	33.3	3.2
MINING	28	40	51	42.9	27.5
NUCLEAR	109	137	119	25.7	-13.1
PETROLEUM	68	66	66	-2.9	.0
ENGINEERING, N.E.C.	238	306	361	28.6	18.0
PHYSICAL SCIENCES	1,725	1,674	1,824	-3.0	9.0
ASTRONOMY	76	79	59	3.9	-25.3
CHEMISTRY	1,042	952	1,094	-8.6	14.9
PHYSICS	601	639	667	6.3	4.4
PHYSICAL SCIENCES, N.E.C.	6	4	4	-33.3	.0
ENVIRONMENTAL SCIENCES	623	653	754	4.8	15.5
ATMOSPHERIC SCIENCES	27	17	13	-37.0	-23.5
GEOSCIENCES	414	465	532	12.3	14.4
OCEANOGRAPHY	97	110	127	13.4	15.5
ENVIRONMENTAL SCIENCES, N.E.C.	85	61	82	-28.2	34.4
MATHEMATICAL/COMPUTER SCIENCES	1,145	1,029	1,122	-10.1	9.0
COMPUTER SCIENCE	360	289	412	-19.7	42.6
MATHEMATICS AND APPLIED MATHEMATICS	651	586	605	-10.0	3.2
STATISTICS	134	154	105	14.9	-31.8
LIFE SCIENCES	5,070	5,355	5,610	5.6	4.8
AGRICULTURAL SCIENCES	560	620	678	10.7	9.4
BIOLOGICAL SCIENCES	3,044	3,309	3,329	8.7	.6
ANATOMY	135	155	154	14.8	-.6
BIOCHEMISTRY	400	352	361	-12.0	2.6
BIOLOGY	672	670	668	-.3	-15.2
BIOMETRY/EPIDEMIOLOGY	63	61	106	-3.2	73.8
BIOPHYSICS	40	38	63	-5.0	65.8
BOTANY	206	177	159	-14.1	-10.2
CELL BIOLOGY	72	116	97	61.1	-16.4
ECOLOGY	59	78	81	32.2	3.8
ENTOMOLOGY/PARASITOLOGY	96	107	134	11.5	25.2
GENETICS	56	93	79	66.1	-15.1
MICROBIOLOGY	322	377	391	17.1	3.7
NUTRITION	194	224	237	15.5	5.8
PATHOLOGY	142	141	204	-.7	44.7
PHARMACOLOGY	235	267	297	13.6	11.2
PHYSIOLOGY	184	224	198	21.7	-11.6
ZOOLOGY	68	102	85	50.0	-16.7
BIOSCIENCES, N.E.C.	100	127	115	27.0	-9.4
HEALTH SCIENCES	1,466	1,426	1,603	-2.7	12.4
ANESTHESIOLOGY	3	0	1	-100.0	**
CANCER/ONCOLOGY	1	1	0	.0	-100.0
CARDIOLOGY	0	10	0	**	-100.0
DENTISTRY	117	99	146	-15.4	47.5
ENDOCRINOLOGY	13	12	10	-7.7	-16.7
GASTROENTEROLOGY	0	0	2	**	**
HEMATOLOGY	5	1	0	-80.0	-100.0
NEUROLOGY	68	54	66	-20.6	22.2
NURSING	218	168	153	-22.9	-8.9
OBSTETRICS/GYNECOLOGY	8	0	4	-100.0	**
OPHTHALMOLOGY	0	0	2	**	**
OTORHINOLARYNGOLOGY	10	9	10	-10.0	11.1
PEDIATRICS	6	18	19	200.0	5.6
PHARMACEUTICAL SCIENCES	144	157	186	9.0	18.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	157	220	264	40.1	20.0
PSYCHIATRY	24	28	19	16.7	-32.1
PULMONARY DISEASE	0	11	6	**	-45.5
RADIOLOGY	35	28	52	-20.0	85.7
SPEECH PATHOLOGY/AUDIOLOGY	307	272	332	-11.4	22.1
SURGERY	33	31	48	-6.1	54.8
VETERINARY SCIENCES	87	99	79	13.8	-20.2
CLINICAL MEDICINE, N.E.C.	89	76	87	-14.6	14.5
HEALTH RELATED, N.E.C.	141	132	117	-6.4	-11.4
PSYCHOLOGY	1,783	1,770	1,766	-.7	-.2
SOCIAL SCIENCES	6,695	6,793	6,206	1.5	-8.6
AGRICULTURAL ECONOMICS	113	166	142	46.9	-14.5
ANTHROPOLOGY	559	554	517	-.9	-6.7
ECONOMICS (EXCEPT AGRICULTURAL)	1,185	1,179	986	-.5	-16.4
GEOGRAPHY	169	240	170	42.0	-29.2
HISTORY AND PHILOSOPHY OF SCIENCE	55	53	53	-3.6	.0
LINGUISTICS	466	304	276	-34.8	-9.2
POLITICAL SCIENCE	1,789	2,273	2,148	27.1	-5.5
SOCIOLOGY	823	735	732	-10.7	-.4
SOCIOLOGY/ANTHROPOLOGY	74	41	39	-44.6	-4.9
SOCIAL SCIENCES, N.E.C.	1,462	1,248	1,143	-14.6	-8.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-17.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH RESEARCH ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	49,426	51,955	53,174	5.1	2.3
ENGINEERING	13,018	14,115	14,563	8.4	3.2
AEROSPACE	503	580	590	15.3	1.7
AGRICULTURAL	348	364	403	4.6	10.7
BIOMEDICAL	207	213	248	2.9	16.4
CHEMICAL	1,688	1,899	2,083	12.5	9.7
CIVIL	1,954	2,132	2,150	9.1	.8
ELECTRICAL	2,596	2,851	2,866	9.8	.5
ENGINEERING SCIENCE	453	474	530	4.6	11.8
INDUSTRIAL	561	593	548	5.7	-7.6
MECHANICAL	1,967	2,052	2,112	4.3	2.9
METALLURGICAL/MATERIALS	1,320	1,387	1,558	5.1	12.3
MINING	89	124	161	39.3	29.8
NUCLEAR	546	516	486	-5.5	-5.8
PETROLEUM	118	104	118	-11.9	13.5
ENGINEERING, N.E.C.	668	826	710	23.7	-14.0
PHYSICAL SCIENCES	7,775	8,315	8,577	6.9	3.2
ASTRONOMY	272	270	263	-.7	-2.6
CHEMISTRY	4,165	4,604	4,797	10.5	4.2
PHYSICS	3,322	3,437	3,502	3.5	1.9
PHYSICAL SCIENCES, N.E.C.	16	4	15	-75.0	275.0
ENVIRONMENTAL SCIENCES	3,508	3,702	3,432	5.5	-7.3
ATMOSPHERIC SCIENCES	485	499	461	2.9	-7.6
GEOSCIENCES	1,896	2,004	1,838	5.7	-8.3
OCEANOGRAPHY	831	836	799	.6	-4.4
ENVIRONMENTAL SCIENCES, N.E.C.	296	363	334	22.6	-8.0
MATHEMATICAL/COMPUTER SCIENCES	1,642	1,814	1,841	10.5	1.5
COMPUTER SCIENCE	869	1,078	1,117	24.1	3.6
MATHEMATICS AND APPLIED MATHEMATICS	482	452	460	-6.2	1.8
STATISTICS	291	284	264	-2.4	-7.0
LIFE SCIENCES	15,426	15,906	16,405	3.1	3.1
AGRICULTURAL SCIENCES	4,457	4,555	4,686	2.2	2.9
BIOLOGICAL SCIENCES	9,434	9,705	9,971	2.9	2.7
ANATOMY	152	138	129	-9.2	-6.5
BIOCHEMISTRY	1,459	1,441	1,531	-1.2	6.2
BIOLOGY	1,375	1,504	1,605	9.4	6.7
BIOMETRY/EPIDEMIOLOGY	88	117	81	33.0	-30.8
BIOPHYSICS	194	173	136	-10.8	-21.4
BOTANY	1,281	1,284	1,261	.2	-1.8
CELL BIOLOGY	173	173	227	.0	31.2
ECOLOGY	254	272	221	7.1	-18.8
ENTOMOLOGY/PARASITOLOGY	819	889	803	8.5	-9.7
GENETICS	191	235	252	23.0	7.2
MICROBIOLOGY	884	924	1,007	4.5	9.0
NUTRITION	1,065	1,136	1,125	6.7	-1.0
PATHOLOGY	171	164	148	-4.1	-9.8
PHARMACOLOGY	382	346	423	-9.4	22.3
PHYSIOLOGY	384	409	455	6.5	11.2
ZOOLOGY	480	383	440	-20.2	14.9
BIOSCIENCES, N.E.C.	82	117	127	42.7	8.5
HEALTH SCIENCES	1,535	1,646	1,748	7.2	6.2
ANESTHESIOLOGY	0	0	0	**	**
CANCER/ONCOLOGY	10	9	0	-10.0	-100.0
CARDIOLOGY	2	6	5	200.0	-16.7
DENTISTRY	35	34	17	-2.9	-50.0
ENDOCRINOLOGY	8	10	12	25.0	20.0
GASTROENTEROLOGY	0	0	1	**	**
HEMATOLOGY	0	1	1	**	.0
NEUROLOGY	81	82	60	1.2	-26.8
NURSING	75	103	110	37.3	6.8
OBSTETRICS/GYNECOLOGY	8	0	0	-100.0	**
OPHTHALMOLOGY	0	3	7	**	133.3
OTORHINOLARYNGOLOGY	4	0	3	-100.0	**
PEDIATRICS	0	0	0	**	**
PHARMACEUTICAL SCIENCES	395	403	441	2.0	9.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	164	187	234	14.0	25.1
PSYCHIATRY	20	8	14	-60.0	75.0
PULMONARY DISEASE	0	0	0	**	**
RADIOLOGY	31	45	26	45.2	-42.2
SPEECH PATHOLOGY/AUDIOLOGY	289	337	286	16.6	-15.1
SURGERY	0	4	8	**	100.0
VETERINARY SCIENCES	212	205	270	-3.3	31.7
CLINICAL MEDICINE, N.E.C.	37	41	43	10.8	4.9
HEALTH RELATED, N.E.C.	164	168	210	2.4	25.0
PSYCHOLOGY	2,517	2,562	2,883	1.8	12.5
SOCIAL SCIENCES	5,540	5,541	5,473	*	-1.2
AGRICULTURAL ECONOMICS	982	986	949	.4	-3.8
ANTHROPOLOGY	402	349	304	-13.2	-12.9
ECONOMICS (EXCEPT AGRICULTURAL)	1,182	1,184	1,162	.2	-1.9
GEOGRAPHY	226	276	249	22.1	-9.8
HISTORY AND PHILOSOPHY OF SCIENCE	11	14	16	27.3	14.3
LINGUISTICS	139	141	181	1.4	28.4
POLITICAL SCIENCE	958	899	931	-6.2	3.6
SOCIOLOGY	759	752	779	-.9	3.6
SOCIOLOGY/ANTHROPOLOGY	109	97	137	-11.0	41.2
SOCIAL SCIENCES, N.E.C.	772	843	765	9.2	-9.3

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-18.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED RESEARCH ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	28,129	29,395	29,148	4.5	-0.8
ENGINEERING	8,105	8,608	8,572	6.2	-.4
AEROSPACE	355	375	406	5.6	8.3
AGRICULTURAL	114	110	132	-3.5	20.0
BIOMEDICAL	129	110	122	-14.7	10.9
CHEMICAL	917	1,068	1,105	16.5	3.5
CIVIL	1,136	1,260	1,098	10.9	-12.9
ELECTRICAL	1,878	1,982	1,919	5.5	-3.2
ENGINEERING SCIENCE	367	383	412	4.4	7.6
INDUSTRIAL	230	257	236	11.7	-8.2
MECHANICAL	1,273	1,240	1,293	-2.6	4.3
METALLURGICAL/MATERIALS	1,013	1,014	1,132	.1	11.6
MINING	69	90	109	30.4	21.1
NUCLEAR	268	240	243	-10.4	1.2
PETROLEUM	40	44	45	10.0	2.3
ENGINEERING, N.E.C.	316	435	320	37.7	-26.4
PHYSICAL SCIENCES	6,486	6,963	7,247	7.4	4.1
ASTRONOMY	225	236	229	4.9	-3.0
CHEMISTRY	3,328	3,762	3,881	13.0	3.2
PHYSICS	2,924	2,961	3,135	1.3	5.9
PHYSICAL SCIENCES, N.E.C.	9	4	2	-55.6	-50.0
ENVIRONMENTAL SCIENCES	2,641	2,663	2,371	.8	-11.0
ATMOSPHERIC SCIENCES	459	455	411	-.9	-9.7
GEOSCIENCES	1,405	1,441	1,200	2.6	-16.7
OCEANOGRAPHY	610	592	556	-3.0	-6.1
ENVIRONMENTAL SCIENCES, N.E.C.	167	175	204	4.8	16.6
MATHEMATICAL/COMPUTER SCIENCES	1,005	1,096	1,048	9.1	-4.4
COMPUTER SCIENCE	623	717	729	15.1	1.7
MATHEMATICS AND APPLIED MATHEMATICS	271	260	244	-4.1	-6.2
STATISTICS	111	119	75	7.2	-37.0
LIFE SCIENCES	7,230	7,635	7,577	5.6	-.8
AGRICULTURAL SCIENCES	1,480	1,569	1,494	6.0	-4.8
BIOLOGICAL SCIENCES	5,068	5,382	5,376	6.2	-.1
ANATOMY	76	78	78	2.6	.0
BIOCHEMISTRY	1,023	1,023	1,110	.0	8.5
BIOLOGY	884	1,000	983	13.1	-1.7
BIOMETRY/EPIDEMIOLOGY	53	81	47	52.8	-42.0
BIOPHYSICS	137	117	106	-14.6	-9.4
BOTANY	504	536	438	6.3	-18.3
CELL BIOLOGY	131	135	174	3.1	28.9
ECOLOGY	141	148	112	5.0	-24.3
ENTOMOLOGY/PARASITOLOGY	215	287	258	33.5	-10.1
GENETICS	92	127	121	38.0	-4.7
MICROBIOLOGY	620	664	678	7.1	2.1
NUTRITION	409	439	434	7.3	-1.1
PATHOLOGY	81	78	86	-3.7	10.3
PHARMACOLOGY	197	171	203	-13.2	18.7
PHYSIOLOGY	187	222	265	18.7	19.4
ZOOLOGY	286	241	220	-15.7	-8.7
BIOSCIENCES, N.E.C.	32	35	63	9.4	80.0
HEALTH SCIENCES	682	684	707	.3	3.4
ANESTHESIOLOGY	0	0	0	**	**
CANCER/ONCOLOGY	10	9	0	-10.0	-100.0
CARDIOLOGY	2	3	0	50.0	-100.0
DENTISTRY	17	9	12	-47.1	33.3
ENDOCRINOLOGY	7	10	12	42.9	20.0
GASTROENTEROLOGY	0	0	0	**	**
HEMATOLOGY	0	0	0	**	**
NEUROLOGY	61	55	44	-9.8	-20.0
NURSING	36	35	48	-2.8	37.1
OBSTETRICS/GYNECOLOGY	6	0	0	-100.0	**
OPHTHALMOLOGY	0	0	7	**	**
OTORHINOLARYNGOLOGY	4	0	3	-100.0	**
PEDIATRICS	0	0	0	**	**
PHARMACEUTICAL SCIENCES	183	195	219	6.6	12.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	82	92	75	12.2	-18.5
PSYCHIATRY	20	7	11	-65.0	57.1
PULMONARY DISEASE	0	0	0	**	**
RADIOLOGY	18	25	16	38.9	-36.0
SPEECH PATHOLOGY/AUDIOLOGY	118	126	117	6.8	-7.1
SURGERY	0	2	7	**	250.0
VETERINARY SCIENCES	68	72	87	5.9	20.8
CLINICAL MEDICINE, N.E.C.	14	11	9	-21.4	-18.2
HEALTH RELATED, N.E.C.	36	33	40	-8.3	21.2
PSYCHOLOGY	1,165	936	1,029	-19.7	9.9
SOCIAL SCIENCES	1,497	1,494	1,304	-.2	-12.7
AGRICULTURAL ECONOMICS	339	388	371	14.5	-4.4
ANTHROPOLOGY	140	105	123	-25.0	17.1
ECONOMICS (EXCEPT AGRICULTURAL)	288	284	177	-1.4	-37.7
GEOGRAPHY	70	85	72	21.4	-15.3
HISTORY AND PHILOSOPHY OF SCIENCE	2	1	0	-50.0	-100.0
LINGUISTICS	44	45	50	2.3	11.1
POLITICAL SCIENCE	110	94	48	-14.5	-48.9
SOCIOLOGY	304	314	315	3.3	.3
SOCIOLOGY/ANTHROPOLOGY	20	18	11	-10.0	-38.9
SOCIAL SCIENCES, N.E.C.	180	160	137	-11.1	-14.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-19.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED RESEARCH ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	21,297	22,560	24,026	5.9	6.5
ENGINEERING	4,913	5,507	5,991	12.1	8.8
AEROSPACE	148	205	184	38.5	-10.2
AGRICULTURAL	234	254	271	8.5	6.7
BIOMEDICAL	78	103	126	32.1	22.3
CHEMICAL	771	831	978	7.8	17.7
CIVIL	818	872	1,052	6.6	20.6
ELECTRICAL	718	869	947	21.0	9.0
ENGINEERING SCIENCE	86	91	118	5.8	29.7
INDUSTRIAL	331	336	312	1.5	-7.1
MECHANICAL	694	812	819	17.0	.9
METALLURGICAL/MATERIALS	307	373	426	21.5	14.2
MINING	20	34	52	70.0	52.9
NUCLEAR	278	276	243	-.7	-12.0
PETROLEUM	78	60	73	-23.1	21.7
ENGINEERING, N.E.C.	352	391	390	11.1	-.3
PHYSICAL SCIENCES	1,289	1,352	1,330	4.9	-1.6
ASTRONOMY	47	34	34	-27.7	.0
CHEMISTRY	837	842	916	.6	8.8
PHYSICS	398	476	367	19.6	-22.9
PHYSICAL SCIENCES, N.E.C.	7	0	13	-100.0	**
ENVIRONMENTAL SCIENCES	867	1,039	1,061	19.8	2.1
ATMOSPHERIC SCIENCES	26	44	50	69.2	13.6
GEOSCIENCES	491	563	638	14.7	13.3
OCEANOGRAPHY	221	244	243	10.4	-.4
ENVIRONMENTAL SCIENCES, N.E.C.	129	188	130	45.7	-30.9
MATHEMATICAL/COMPUTER SCIENCES	637	718	793	12.7	10.4
COMPUTER SCIENCE	246	361	388	46.7	7.5
MATHEMATICS AND APPLIED MATHEMATICS	211	192	216	-9.0	12.5
STATISTICS	180	165	189	-8.3	14.5
LIFE SCIENCES	8,196	8,271	8,828	.9	6.7
AGRICULTURAL SCIENCES	2,977	2,986	3,192	.3	6.9
BIOLOGICAL SCIENCES	4,366	4,323	4,595	-1.0	6.3
ANATOMY	76	60	51	-21.1	-15.0
BIOCHEMISTRY	436	418	421	-4.1	.7
BIOLOGY	491	504	622	2.6	23.4
BIOMETRY/EPIDEMIOLOGY	35	36	34	2.9	-5.6
BIOPHYSICS	57	56	30	-1.8	-46.4
BOTANY	777	748	823	-3.7	10.0
CELL BIOLOGY	42	38	53	-9.5	39.5
ECOLOGY	113	124	109	9.7	-12.1
ENTOMOLOGY/PARASITOLOGY	604	602	545	-.3	-9.5
GENETICS	99	108	131	9.1	21.3
MICROBIOLOGY	264	260	329	-1.5	26.5
NUTRITION	656	697	691	6.3	-.9
PATHOLOGY	90	86	62	-4.4	-27.9
PHARMACOLOGY	185	175	220	-5.4	25.7
PHYSIOLOGY	197	187	190	-5.1	1.6
ZOOLOGY	194	142	220	-26.8	54.9
BIOSCIENCES, N.E.C.	50	82	64	64.0	-22.0
HEALTH SCIENCES	853	962	1,041	12.8	8.2
ANESTHESIOLOGY	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0
CARDIOLOGY	0	3	5	**	66.7
DENTISTRY	18	25	5	38.9	-80.0
ENDOCRINOLOGY	1	0	0	-100.0	**
GASTROENTEROLOGY	0	0	1	**	**
HEMATOLOGY	0	1	1	**	.0
NEUROLOGY	20	27	16	35.0	-40.7
NURSING	39	68	62	74.4	-8.8
OBSTETRICS/GYNECOLOGY	2	0	0	-100.0	**
OPHTHALMOLOGY	0	3	0	**	-100.0
OTORHINOLARYNGOLOGY	0	0	0	**	**
PEDIATRICS	0	0	0	**	**
PHARMACEUTICAL SCIENCES	212	208	222	-1.9	6.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	82	95	159	15.9	67.4
PSYCHIATRY	0	1	3	**	200.0
PULMONARY DISEASE	0	0	0	**	**
RADIOLOGY	13	20	10	53.8	-50.0
SPEECH PATHOLOGY/AUDIOLOGY	171	211	169	23.4	-19.9
SURGERY	0	2	1	**	-50.0
VETERINARY SCIENCES	144	133	183	-7.6	37.6
CLINICAL MEDICINE, N.E.C.	23	30	34	30.4	13.3
HEALTH RELATED, N.E.C.	128	135	170	5.5	25.9
PSYCHOLOGY	1,352	1,626	1,854	20.3	14.0
SOCIAL SCIENCES	4,043	4,047	4,169	.1	3.0
AGRICULTURAL ECONOMICS	643	598	578	-7.0	-3.3
ANTHROPOLOGY	262	244	181	-6.9	-25.8
ECONOMICS (EXCEPT AGRICULTURAL)	894	900	985	.7	9.4
GEOGRAPHY	156	191	177	22.4	-7.3
HISTORY AND PHILOSOPHY OF SCIENCE	9	13	16	44.4	23.1
LINGUISTICS	95	96	131	1.1	36.5
POLITICAL SCIENCE	848	805	883	-5.1	9.7
SOCIOLOGY	455	438	464	-3.7	5.9
SOCIOLOGY/ANTHROPOLOGY	89	79	126	-11.2	59.5
SOCIAL SCIENCES, N.E.C.	592	683	628	15.4	-8.1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-20.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH TEACHING ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	52,033	54,134	55,999	4.0	3.4
ENGINEERING	6,687	7,433	8,416	11.2	13.2
AEROSPACE	178	189	218	6.2	15.3
AGRICULTURAL	57	55	42	-3.5	-23.6
BIOMEDICAL	92	108	95	17.4	-12.0
CHEMICAL	782	853	956	9.1	12.1
CIVIL	998	1,091	1,168	9.3	7.1
ELECTRICAL	1,880	2,124	2,511	13.0	18.2
ENGINEERING SCIENCE	148	195	192	31.8	-1.5
INDUSTRIAL	535	548	631	2.4	15.1
MECHANICAL	1,174	1,281	1,458	9.1	13.8
METALLURGICAL/MATERIALS	196	235	245	19.9	4.3
MINING	42	34	63	-19.0	85.3
NUCLEAR	129	99	111	-23.3	12.1
PETROLEUM	37	47	54	27.0	14.9
ENGINEERING, N.E.C.	439	574	672	30.8	17.1
PHYSICAL SCIENCES	9,948	10,244	10,250	3.0	.1
ASTRONOMY	170	174	181	2.4	4.0
CHEMISTRY	6,393	6,575	6,436	2.8	-2.1
PHYSICS	3,357	3,472	3,606	3.4	3.9
PHYSICAL SCIENCES, N.E.C.	28	23	27	-17.9	17.4
ENVIRONMENTAL SCIENCES	2,581	2,644	2,607	2.4	-1.4
ATMOSPHERIC SCIENCES	99	95	84	-4.0	-11.6
GEOSCIENCES	2,044	2,107	2,080	3.1	-1.3
OCEANOGRAPHY	144	162	146	12.5	-9.9
ENVIRONMENTAL SCIENCES, N.E.C.	294	280	297	-4.8	6.1
MATHEMATICAL/COMPUTER SCIENCES	6,769	7,080	7,522	4.6	6.2
COMPUTER SCIENCE	1,368	1,514	1,821	10.7	20.3
MATHEMATICS AND APPLIED MATHEMATICS	4,815	4,937	5,065	2.5	2.6
STATISTICS	586	629	636	7.3	1.1
LIFE SCIENCES	12,428	12,747	12,478	2.6	-2.1
AGRICULTURAL SCIENCES	850	924	812	8.7	-12.1
BIOLOGICAL SCIENCES	9,492	9,643	9,472	1.6	-1.8
ANATOMY	331	286	309	-13.6	8.0
BIOCHEMISTRY	594	688	686	15.8	-.3
BIOLOGY	3,880	3,906	3,758	.7	-3.8
BIOMETRY/EPIDEMIOLOGY	46	45	52	-2.2	15.6
BIOPHYSICS	28	46	38	64.3	-17.4
BOTANY	911	916	837	.5	-8.6
CELL BIOLOGY	88	93	112	5.7	20.4
ECOLOGY	290	304	323	4.8	6.3
ENTOMOLOGY/PARASITOLOGY	159	163	168	2.5	3.1
GENETICS	106	111	119	4.7	7.2
MICROBIOLOGY	765	836	861	9.3	3.0
NUTRITION	289	286	268	-1.0	-6.3
PATHOLOGY	75	81	63	8.0	-22.2
PHARMACOLOGY	246	242	244	-1.6	.8
PHYSIOLOGY	358	344	345	-3.9	.3
ZOOLOGY	1,242	1,221	1,174	-1.7	-3.8
BIOSCIENCES, N.E.C.	84	75	115	-10.7	53.3
HEALTH SCIENCES	2,086	2,180	2,194	4.5	.6
ANESTHESIOLOGY	0	0	0	0	0
CANCER/ONCOLOGY	1	1	0	.0	-100.0
CARDIOLOGY	0	0	0	.0	0
DENTISTRY	186	187	159	5.9	-19.3
ENDOCRINOLOGY	10	6	6	-40.0	.0
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	0	0	1	**	**
NEUROLOGY	35	35	45	.0	28.6
NURSING	208	210	266	1.0	26.7
OBSTETRICS/GYNECOLOGY	1	0	0	-100.0	**
OPHTHALMOLOGY	2	0	4	-100.0	**
OTORHINOLARYNGOLOGY	0	0	0	**	**
PEDIATRICS	0	1	1	**	.0
PHARMACEUTICAL SCIENCES	576	575	581	-.2	1.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	84	73	75	-13.1	2.7
PSYCHIATRY	1	0	0	-100.0	**
PULMONARY DISEASE	1	0	0	-100.0	**
RADIOLOGY	15	15	5	.0	-66.7
SPEECH PATHOLOGY/AUDIOLOGY	743	792	742	6.6	-6.3
SURGERY	0	0	0	**	**
VETERINARY SCIENCES	126	128	127	1.6	-.8
CLINICAL MEDICINE, N.E.C.	12	20	44	66.7	120.0
HEALTH RELATED, N.E.C.	85	127	138	49.4	8.7
PSYCHOLOGY	4,552	4,757	4,995	4.5	5.0
SOCIAL SCIENCES	9,068	9,229	9,731	1.8	5.4
AGRICULTURAL ECONOMICS	93	110	122	18.3	10.9
ANTHROPOLOGY	844	829	867	-1.8	4.6
ECONOMICS (EXCEPT AGRICULTURAL)	2,157	2,462	2,679	14.1	8.8
GEOGRAPHY	781	775	899	-.8	16.0
HISTORY AND PHILOSOPHY OF SCIENCE	67	77	68	14.9	-11.7
LINGUISTICS	725	656	690	-9.5	5.2
POLITICAL SCIENCE	2,051	1,890	2,045	-7.8	8.2
SOCIOLOGY	1,515	1,562	1,585	3.1	1.5
SOCIOLOGY/ANTHROPOLOGY	231	217	197	-6.1	-9.2
SOCIAL SCIENCES, N.E.C.	604	651	579	7.8	-11.1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-21.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED TEACHING ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	609	680	641	11.7	-5.7
ENGINEERING	67	141	102	110.4	-27.7
AEROSPACE	15	0	19	-100.0	**
AGRICULTURAL	0	10	3	**	-70.0
BIOMEDICAL	0	1	0	**	-100.0
CHEMICAL	13	44	31	238.5	-29.5
CIVIL	13	31	11	138.5	-64.5
ELECTRICAL	1	20	6	1900.0	-70.0
ENGINEERING SCIENCE	4	0	2	-100.0	**
INDUSTRIAL	3	3	10	.0	233.3
MECHANICAL	4	9	8	125.0	-11.1
METALLURGICAL/MATERIALS	7	0	0	-100.0	**
MINING	0	1	6	**	500.0
NUCLEAR	0	3	0	**	-100.0
PETROLEUM	3	0	0	-100.0	**
ENGINEERING, N.E.C.	4	19	6	375.0	-68.4
PHYSICAL SCIENCES	71	63	52	-11.3	-17.5
ASTRONOMY	1	0	8	-100.0	**
CHEMISTRY	57	50	22	-12.3	-56.0
PHYSICS	12	13	22	8.3	69.2
PHYSICAL SCIENCES, N.E.C.	1	0	0	-100.0	**
ENVIRONMENTAL SCIENCES	31	29	15	-6.5	-48.3
ATMOSPHERIC SCIENCES	1	6	0	500.0	-100.0
GEOSCIENCES	26	19	15	-26.9	-21.1
OCEANOGRAPHY	3	3	0	.0	-100.0
ENVIRONMENTAL SCIENCES, N.E.C.	1	1	0	.0	-100.0
MATHEMATICAL/COMPUTER SCIENCES	13	27	44	107.7	63.0
COMPUTER SCIENCE	1	3	1	200.0	-66.7
MATHEMATICS AND APPLIED MATHEMATICS	10	24	43	140.0	79.2
STATISTICS	2	0	0	-100.0	**
LIFE SCIENCES	333	280	283	-15.9	1.1
AGRICULTURAL SCIENCES	8	24	9	200.0	-62.5
BIOLOGICAL SCIENCES	182	125	142	-31.3	13.6
ANATOMY	5	3	9	-40.0	200.0
BIOCHEMISTRY	33	31	25	-6.1	-19.4
BIOLOGY	82	19	32	-76.8	68.4
BIOMETRY/EPIDEMIOLOGY	0	1	0	**	-100.0
BIOPHYSICS	0	5	0	**	-100.0
BOTANY	15	12	11	-20.0	-8.3
CELL BIOLOGY	0	4	3	**	-25.0
ECOLOGY	0	0	7	**	**
ENTOMOLOGY/PARASITOLOGY	2	1	3	-50.0	200.0
GENETICS	2	3	0	50.0	-100.0
MICROBIOLOGY	6	23	14	283.3	-39.1
NUTRITION	3	5	4	66.7	-20.0
PATHOLOGY	3	1	0	-66.7	-100.0
PHARMACOLOGY	22	12	16	-45.5	33.3
PHYSIOLOGY	4	1	6	-75.0	500.0
ZOOLOGY	2	2	11	.0	450.0
BIOSCIENCES, N.E.C.	3	2	1	-33.3	-50.0
HEALTH SCIENCES	143	131	132	-8.4	.8
ANESTHESIOLOGY	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0
DENTISTRY	19	20	7	5.3	-65.0
ENDOCRINOLOGY	0	0	0	**	**
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0
NEUROLOGY	0	1	0	**	-100.0
NURSING	36	22	34	-38.9	54.5
OBSTETRICS/GYNECOLOGY	0	0	0	**	**
OPHTHALMOLOGY	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0
PEDIATRICS	0	1	1	**	.0
PHARMACEUTICAL SCIENCES	8	11	13	37.5	18.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	12	4	4	-66.7	.0
PSYCHIATRY	0	0	0	**	**
PULMONARY DISEASE	0	0	0	0	0
RADIOLOGY	0	0	0	**	**
SPEECH PATHOLOGY/AUDIOLOGY	42	47	39	11.9	-17.0
SURGERY	0	0	0	**	**
VETERINARY SCIENCES	13	8	5	-38.5	-37.5
CLINICAL MEDICINE, N.E.C.	0	8	5	**	-37.5
HEALTH RELATED, N.E.C.	13	9	24	-30.8	166.7
PSYCHOLOGY	42	51	65	21.4	27.5
SOCIAL SCIENCES	52	89	80	71.2	-10.1
AGRICULTURAL ECONOMICS	1	1	4	.0	300.0
ANTHROPOLOGY	7	5	1	-28.6	-80.0
ECONOMICS (EXCEPT AGRICULTURAL)	1	19	15	1800.0	-21.1
GEOGRAPHY	11	8	1	-27.3	-87.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	4	0	**	-100.0
LINGUISTICS	3	3	6	.0	100.0
POLITICAL SCIENCE	13	22	13	69.2	-40.9
SOCIOLOGY	8	5	19	-37.5	280.0
SOCIOLOGY/ANTHROPOLOGY	3	6	0	100.0	-100.0
SOCIAL SCIENCES, N.E.C.	5	16	21	220.0	31.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-22.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED TEACHING ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	51,424	53,454	55,358	3.9	3.6
ENGINEERING	6,620	7,292	8,314	10.2	14.0
AEROSPACE	163	189	199	16.0	5.3
AGRICULTURAL	57	45	39	-21.1	-13.3
BIOMEDICAL	92	107	95	16.3	-11.2
CHEMICAL	769	809	925	5.2	14.3
CIVIL	985	1,060	1,157	7.6	9.2
ELECTRICAL	1,879	2,104	2,505	12.0	19.1
ENGINEERING SCIENCE	144	195	190	35.4	-2.6
INDUSTRIAL	532	545	621	2.4	13.9
MECHANICAL	1,170	1,272	1,450	8.7	14.0
METALLURGICAL/MATERIALS	189	235	245	24.3	4.3
MINING	42	33	57	-21.4	72.7
NUCLEAR	129	96	111	-25.6	15.6
PETROLEUM	34	47	54	38.2	14.9
ENGINEERING, N.E.C.	435	555	666	27.6	20.0
PHYSICAL SCIENCES	9,877	10,181	10,198	3.1	.2
ASTRONOMY	169	174	173	3.0	-.6
CHEMISTRY	6,336	6,525	6,414	3.0	-1.7
PHYSICS	3,345	3,459	3,584	3.4	3.6
PHYSICAL SCIENCES, N.E.C.	27	23	27	-14.8	17.4
ENVIRONMENTAL SCIENCES	2,550	2,615	2,592	2.5	-.9
ATMOSPHERIC SCIENCES	98	89	84	-9.2	-5.6
GEOSCIENCES	2,018	2,088	2,065	3.5	-1.1
OCEANOGRAPHY	141	159	146	12.8	-8.2
ENVIRONMENTAL SCIENCES, N.E.C.	293	279	297	-4.8	6.5
MATHEMATICAL/COMPUTER SCIENCES	6,756	7,053	7,478	4.4	6.0
COMPUTER SCIENCE	1,367	1,511	1,820	10.5	20.5
MATHEMATICS AND APPLIED MATHEMATICS	4,805	4,913	5,022	2.2	2.2
STATISTICS	584	629	636	7.7	1.1
LIFE SCIENCES	12,095	12,467	12,195	3.1	-2.2
AGRICULTURAL SCIENCES	842	900	803	6.9	-10.8
BIOLOGICAL SCIENCES	9,310	9,518	9,330	2.2	-2.0
ANATOMY	326	283	300	-13.2	6.0
BIOCHEMISTRY	561	657	661	17.1	.6
BIOLOGY	3,798	3,887	3,726	2.3	-4.1
BIOMETRY/EPIDEMIOLOGY	46	44	52	-4.3	18.2
BIOPHYSICS	28	41	38	46.4	-7.3
BOTANY	896	904	826	.9	-8.6
CELL BIOLOGY	88	89	109	1.1	22.5
ECOLOGY	290	304	316	4.8	3.9
ENTOMOLOGY/PARASITOLOGY	157	162	165	3.2	1.9
GENETICS	104	108	119	3.8	10.2
MICROBIOLOGY	759	813	847	7.1	4.2
NUTRITION	286	281	264	-1.7	-6.0
PATHOLOGY	72	80	63	11.1	-21.3
PHARMACOLOGY	224	230	228	2.7	-.9
PHYSIOLOGY	354	343	339	-3.1	-1.2
ZOOLOGY	1,240	1,219	1,163	-1.7	-4.6
BIOSCIENCES, N.E.C.	81	73	114	-9.9	56.2
HEALTH SCIENCES	1,943	2,049	2,062	5.5	.6
ANESTHESIOLOGY	0	0	0	0	0
CANCER/ONCOLOGY	1	1	0	.0	-100.0
CARDIOLOGY	0	0	0	0	0
DENTISTRY	167	177	152	6.0	-14.1
ENDOCRINOLOGY	10	6	6	-40.0	.0
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	0	0	1	**	**
NEUROLOGY	35	34	45	-2.9	32.4
NURSING	172	188	232	9.3	23.4
OBSTETRICS/GYNECOLOGY	1	0	0	-100.0	**
OPHTHALMOLOGY	2	0	4	-100.0	**
OTORHINOLARYNGOLOGY	0	0	0	**	**
PEDIATRICS	0	0	0	**	**
PHARMACEUTICAL SCIENCES	568	564	568	-.7	.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	72	69	71	-4.2	2.9
PSYCHIATRY	1	0	0	-100.0	**
PULMONARY DISEASE	1	0	0	-100.0	**
RADIOLOGY	15	15	5	.0	-66.7
SPEECH PATHOLOGY/AUDIOLOGY	701	745	703	6.3	-5.6
SURGERY	0	0	0	**	**
VETERINARY SCIENCES	113	120	122	6.2	1.7
CLINICAL MEDICINE, N.E.C.	12	12	39	.0	225.0
HEALTH RELATED, N.E.C.	72	118	114	63.9	-3.4
PSYCHOLOGY	4,510	4,706	4,930	4.3	4.8
SOCIAL SCIENCES	9,016	9,140	9,651	1.4	5.6
AGRICULTURAL ECONOMICS	92	109	118	18.5	8.3
ANTHROPOLOGY	837	824	866	-1.6	5.1
ECONOMICS (EXCEPT AGRICULTURAL)	2,156	2,443	2,664	13.3	9.0
GEOGRAPHY	770	767	898	-.4	17.1
HISTORY AND PHILOSOPHY OF SCIENCE	67	73	68	9.0	-6.8
LINGUISTICS	722	653	684	-9.6	4.7
POLITICAL SCIENCE	2,038	1,868	2,032	-8.3	8.8
SOCIOLOGY	1,507	1,557	1,566	3.3	.6
SOCIOLOGY/ANTHROPOLOGY	228	211	197	-7.5	-6.6
SOCIAL SCIENCES, N.E.C.	599	635	558	6.0	-12.1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-23.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH OTHER TYPES OF SUPPORT IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	100,627	103,016	105,608	2.4	2.5
ENGINEERING	16,721	17,289	18,572	3.4	7.4
AEROSPACE	381	453	511	18.9	12.8
AGRICULTURAL	174	132	185	-24.1	40.2
BIOMEDICAL	348	327	376	-6.0	15.0
CHEMICAL	1,166	1,126	1,274	-3.4	13.1
CIVIL	3,103	3,074	3,247	-.9	5.6
ELECTRICAL	3,802	4,117	4,030	8.3	-2.1
ENGINEERING SCIENCE	339	345	296	1.8	-14.2
INDUSTRIAL	2,502	2,519	2,463	.7	-2.2
MECHANICAL	1,811	2,001	2,244	10.5	12.1
METALLURGICAL/MATERIALS	338	302	340	-10.7	12.6
MINING	117	121	141	3.4	16.5
NUCLEAR	302	291	311	-3.6	6.9
PETROLEUM	105	133	148	26.7	11.3
ENGINEERING, N.E.C.	2,233	2,348	3,006	5.2	28.0
PHYSICAL SCIENCES	2,473	2,166	2,171	-12.4	.2
ASTRONOMY	63	46	49	-27.0	6.5
CHEMISTRY	1,341	1,096	1,034	-18.3	-5.7
PHYSICS	1,024	968	1,043	-5.5	7.7
PHYSICAL SCIENCES, N.E.C.	45	56	45	24.4	-19.6
ENVIRONMENTAL SCIENCES	3,255	3,251	3,785	-.1	16.4
ATMOSPHERIC SCIENCES	154	165	205	7.1	24.2
GEOSCIENCES	2,001	2,005	2,284	.2	13.9
OCEANOGRAPHY	399	427	515	7.0	20.6
ENVIRONMENTAL SCIENCES, N.E.C.	701	654	781	-6.7	19.4
MATHEMATICAL/COMPUTER SCIENCES	5,698	6,292	7,070	10.4	12.4
COMPUTER SCIENCE	3,261	3,731	4,317	14.4	15.7
MATHEMATICS AND APPLIED MATHEMATICS	2,055	2,132	2,239	3.7	5.0
STATISTICS	382	429	514	12.3	19.8
LIFE SCIENCES	25,921	26,343	26,732	1.6	1.5
AGRICULTURAL SCIENCES	3,788	3,752	3,743	-1.0	-.2
BIOLOGICAL SCIENCES	10,708	10,020	9,722	-6.4	-3.0
ANATOMY	243	268	222	10.3	-17.2
BIOCHEMISTRY	475	491	450	3.4	-8.4
BIOLOGY	3,544	2,965	2,842	-16.3	-4.1
BIOMETRY/EPIDEMIOLOGY	491	523	432	6.5	-17.4
BIOPHYSICS	94	94	127	.0	35.1
BOTANY	779	737	669	-5.4	-9.2
CELL BIOLOGY	74	68	59	-8.1	-13.2
ECOLOGY	203	252	255	24.1	1.2
ENTOMOLOGY/PARASITOLOGY	347	310	319	-10.7	2.9
GENETICS	222	174	193	-21.6	10.9
MICROBIOLOGY	774	798	696	3.1	-12.8
NUTRITION	1,265	1,184	1,404	-6.4	18.6
PATHOLOGY	643	618	577	-3.9	-6.6
PHARMACOLOGY	356	423	337	18.8	-20.3
PHYSIOLOGY	546	500	563	-8.4	12.6
ZOOLOGY	512	486	456	-5.1	-6.2
BIOSCIENCES, N.E.C.	140	129	121	-7.9	-6.2
HEALTH SCIENCES	11,425	12,571	13,267	10.0	5.5
ANESTHESIOLOGY	15	13	15	-13.3	15.4
CANCER/ONCOLOGY	0	0	44	**	**
CARDIOLOGY	0	18	25	**	38.9
DENTISTRY	730	689	644	-5.6	-6.5
ENDOCRINOLOGY	6	12	8	100.0	-33.3
GASTROENTEROLOGY	0	0	0	**	**
HEMATOLOGY	9	6	5	-33.3	-16.7
NEUROLOGY	37	61	32	64.9	-47.5
NURSING	2,323	2,407	3,216	3.6	33.6
OBSTETRICS/GYNECOLOGY	4	3	4	-25.0	33.3
OPHTHALMOLOGY	1	2	2	100.0	.0
OTORHINOLARYNGOLOGY	6	7	0	16.7	-100.0
PEDIATRICS	35	44	35	25.7	-20.5
PHARMACEUTICAL SCIENCES	410	442	398	7.8	-10.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,235	2,292	2,302	2.6	.4
PSYCHIATRY	50	16	18	-68.0	12.5
PULMONARY DISEASE	0	2	0	**	-100.0
RADIOLOGY	87	95	96	9.2	1.1
SPEECH PATHOLOGY/AUDIOLOGY	3,193	3,608	3,577	13.0	-.9
SURGERY	16	28	4	75.0	-85.7
VETERINARY SCIENCES	241	225	189	-6.6	-16.0
CLINICAL MEDICINE, N.E.C.	102	163	99	59.8	-39.3
HEALTH RELATED, N.E.C.	1,925	2,438	2,554	26.6	4.8
PSYCHOLOGY	14,963	15,746	15,555	5.2	-1.2
SOCIAL SCIENCES	31,596	31,929	31,723	1.1	-.6
AGRICULTURAL ECONOMICS	720	750	768	4.2	2.4
ANTHROPOLOGY	2,508	2,623	2,414	4.6	-8.0
ECONOMICS (EXCEPT AGRICULTURAL)	3,544	4,168	4,323	17.6	3.7
GEOGRAPHY	900	968	948	7.6	-2.1
HISTORY AND PHILOSOPHY OF SCIENCE	88	83	76	-5.7	-8.4
LINGUISTICS	784	997	945	27.2	-5.2
POLITICAL SCIENCE	8,830	8,186	8,890	-7.3	8.6
SOCIOLOGY	2,387	2,485	2,218	4.1	-10.7
SOCIOLOGY/ANTHROPOLOGY	226	263	198	16.4	-24.7
SOCIAL SCIENCES, N.E.C.	11,609	11,406	10,943	-1.7	-4.1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-26.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED OTHER TYPES OF SUPPORT IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	5,764	5,322	5,044	-7.7	-5.2
ENGINEERING	1,642	1,522	1,435	-7.3	-5.7
AEROSPACE	136	170	198	25.0	16.5
AGRICULTURAL	11	4	5	-63.6	25.0
BIOMEDICAL	17	24	21	41.2	-12.5
CHEMICAL	126	39	39	-69.0	.0
CIVIL	191	133	138	-30.4	3.8
ELECTRICAL	407	496	442	21.9	-10.9
ENGINEERING SCIENCE	189	179	110	-5.3	-38.5
INDUSTRIAL	311	210	213	-32.5	1.4
MECHANICAL	121	138	138	14.0	.0
METALLURGICAL/MATERIALS	11	12	2	9.1	-83.3
MINING	11	26	26	136.4	.0
NUCLEAR	6	7	6	16.7	-14.3
PETROLEUM	15	4	1	-73.3	-75.0
ENGINEERING, N.E.C.	90	80	96	-11.1	20.0
PHYSICAL SCIENCES	333	178	166	-46.5	-6.7
ASTRONOMY	4	4	4	.0	.0
CHEMISTRY	241	47	21	-80.5	-55.3
PHYSICS	88	118	136	34.1	15.3
PHYSICAL SCIENCES, N.E.C.	0	9	5	**	-44.4
ENVIRONMENTAL SCIENCES	305	235	221	-23.0	-6.0
ATMOSPHERIC SCIENCES	56	44	60	-21.4	36.4
GEOSCIENCES	128	72	55	-43.8	-23.6
OCEANOGRAPHY	103	90	91	-12.6	1.1
ENVIRONMENTAL SCIENCES, N.E.C.	18	29	15	61.1	-48.3
MATHEMATICAL/COMPUTER SCIENCES	398	453	533	13.8	17.7
COMPUTER SCIENCE	129	181	226	40.3	24.9
MATHEMATICS AND APPLIED MATHEMATICS	248	261	296	5.2	13.4
STATISTICS	21	11	11	-47.6	.0
LIFE SCIENCES	1,258	1,265	1,318	.6	4.2
AGRICULTURAL SCIENCES	132	66	109	-50.0	65.2
BIOLOGICAL SCIENCES	544	450	429	-17.3	-4.7
ANATOMY	22	28	15	27.3	-46.4
BIOCHEMISTRY	40	38	44	-5.0	15.8
BIOLOGY	116	49	45	-57.8	-8.2
BIOMETRY/EPIDEMIOLOGY	18	13	24	-27.8	84.6
BIOPHYSICS	6	5	4	-16.7	-20.0
BOTANY	31	20	16	-35.5	-20.0
CELL BIOLOGY	33	23	5	-30.3	-78.3
ECOLOGY	15	11	8	-26.7	-27.3
ENTOMOLOGY/PARASITOLOGY	20	15	19	-25.0	26.7
GENETICS	17	5	15	-70.6	200.0
MICROBIOLOGY	43	64	60	48.8	-6.3
NUTRITION	10	22	24	120.0	9.1
PATHOLOGY	31	41	23	32.3	-43.9
PHARMACOLOGY	33	39	28	18.2	-28.2
PHYSIOLOGY	71	49	36	-31.0	-26.5
ZOOLOGY	30	19	30	-36.7	57.9
BIOSCIENCES, N.E.C.	8	9	33	12.5	266.7
HEALTH SCIENCES	582	749	780	28.7	4.1
ANESTHESIOLOGY	0	0	0	**	**
CANCER/ONCOLOGY	0	0	0	**	**
CARDIOLOGY	0	0	1	**	**
DENTISTRY	43	56	46	30.2	-17.9
ENDOCRINOLOGY	0	2	1	**	-50.0
GASTROENTEROLOGY	0	0	0	**	**
HEMATOLOGY	0	0	1	**	**
NEUROLOGY	1	13	4	1200.0	-69.2
NURSING	157	247	326	57.3	32.0
OBSTETRICS/GYNECOLOGY	0	0	0	**	**
OPHTHALMOLOGY	0	0	0	**	**
OTORHINOLARYNGOLOGY	0	2	0	**	-100.0
PEDIATRICS	0	0	0	**	**
PHARMACEUTICAL SCIENCES	21	21	29	.0	38.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	183	127	126	-30.6	-.8
PSYCHIATRY	2	0	0	-100.0	**
PULMONARY DISEASE	0	0	0	**	**
RADIOLOGY	1	2	2	100.0	.0
SPEECH PATHOLOGY/AUDIOLOGY	48	67	52	39.6	-22.4
SURGERY	0	2	0	**	-100.0
VETERINARY SCIENCES	12	22	18	83.3	-18.2
CLINICAL MEDICINE, N.E.C.	5	18	5	260.0	-72.2
HEALTH RELATED, N.E.C.	105	170	169	61.9	-.6
PSYCHOLOGY	383	559	458	46.0	-18.1
SOCIAL SCIENCES	1,445	1,110	913	-23.2	-17.7
AGRICULTURAL ECONOMICS	66	38	63	-42.4	65.8
ANTHROPOLOGY	55	61	62	10.9	1.6
ECONOMICS (EXCEPT AGRICULTURAL)	57	92	78	61.4	-15.2
GEOGRAPHY	22	14	17	-36.4	21.4
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	3	**	**
LINGUISTICS	26	8	10	-69.2	25.0
POLITICAL SCIENCE	438	454	425	3.7	-6.4
SOCIOLOGY	75	74	79	-1.3	6.8
SOCIOLOGY/ANTHROPOLOGY	5	12	1	140.0	-91.7
SOCIAL SCIENCES, N.E.C.	701	357	175	-49.1	-51.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-25.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED OTHER TYPES OF SUPPORT IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	94,863	97,694	100,564	3.0	2.9
ENGINEERING	15,079	15,767	17,137	4.6	8.7
AEROSPACE	245	283	313	15.5	10.6
AGRICULTURAL	163	128	180	-21.5	40.6
BIOMEDICAL	331	303	355	-8.5	17.2
CHEMICAL	1,040	1,087	1,235	4.5	13.6
CIVIL	2,912	2 941	3,109	1.0	5.7
ELECTRICAL	3,395	3,621	3,588	6.7	-.9
ENGINEERING SCIENCE	150	166	186	10.7	12.0
INDUSTRIAL	2,191	2,309	2,250	5.4	-2.6
MECHANICAL	1,690	1,863	2,106	10.2	13.0
METALLURGICAL/MATERIALS	327	290	338	-11.3	16.6
MINING	106	95	115	-10.4	21.1
NUCLEAR	296	284	305	-4.1	7.4
PETROLEUM	90	129	147	43.3	14.0
ENGINEERING, N.E.C.	2,143	2,268	2,910	5.8	28.3
PHYSICAL SCIENCES	2,140	1,988	2,005	-7.1	.9
ASTRONOMY	59	42	45	-28.8	7.1
CHEMISTRY	1,100	1,049	1,013	-4.6	-3.4
PHYSICS	936	850	907	-9.2	6.7
PHYSICAL SCIENCES, N.E.C.	45	47	40	4.4	-14.9
ENVIRONMENTAL SCIENCES	2,950	3,016	3,564	2.2	18.2
ATMOSPHERIC SCIENCES	98	121	145	23.5	19.8
GEOSCIENCES	1,873	1,933	2,229	3.2	15.3
OCEANOGRAPHY	296	337	424	13.9	25.8
ENVIRONMENTAL SCIENCES, N.E.C.	683	625	766	-8.5	22.6
MATHEMATICAL/COMPUTER SCIENCES	5,300	5,839	6,537	10.2	12.0
COMPUTER SCIENCE	3,132	3,550	4,091	13.3	15.2
MATHEMATICS AND APPLIED MATHEMATICS	1,807	1,871	1,943	3.5	3.8
STATISTICS	361	418	503	15.8	20.3
LIFE SCIENCES	24,663	25,078	25,414	1.7	1.3
AGRICULTURAL SCIENCES	3,656	3,686	3,634	.8	-1.4
BIOLOGICAL SCIENCES	10,164	9,570	9,293	-5.8	-2.9
ANATOMY	221	240	207	8.6	-13.8
BIOCHEMISTRY	435	453	406	4.1	-10.4
BIOLOGY	3,428	2,916	2,797	-14.9	-4.1
BIOMETRY/EPIDEMIOLOGY	473	510	408	7.8	-20.0
BIOPHYSICS	88	89	123	1.1	38.2
BOTANY	748	717	653	-4.1	-8.9
CELL BIOLOGY	41	45	54	9.8	20.0
ECOLOGY	188	241	247	28.2	2.5
ENTOMOLOGY/PARASITOLOGY	327	295	300	-9.8	1.7
GENETICS	205	169	178	-17.6	5.3
MICROBIOLOGY	731	734	636	.4	-13.4
NUTRITION	1,255	1,162	1,380	-7.4	18.8
PATHOLOGY	612	577	554	-5.7	-4.0
PHARMACOLOGY	323	384	309	18.9	-19.5
PHYSIOLOGY	475	451	527	-5.1	16.9
ZOOLOGY	482	467	426	-3.1	-8.8
BIOSCIENCES, N.E.C.	132	120	88	-9.1	-26.7
HEALTH SCIENCES	10,843	11,822	12,487	9.0	5.6
ANESTHESIOLOGY	15	13	15	-13.3	15.4
CANCER/ONCOLOGY	0	0	44	**	**
CARDIOLOGY	0	18	24	**	33.3
DENTISTRY	687	633	598	-7.9	-5.5
ENDOCRINOLOGY	6	10	7	66.7	-30.0
GASTROENTEROLOGY	0	0	0	**	**
HEMATOLOGY	9	6	4	-33.3	-33.3
NEUROLOGY	36	48	28	33.3	-41.7
NURSING	2,166	2,160	2,890	-.3	33.8
OBSTETRICS/GYNECOLOGY	4	3	4	-25.0	33.3
OPHTHALMOLOGY	1	2	2	100.0	.0
OTORHINOLARYNGOLOGY	6	5	0	-16.7	-100.0
PEDIATRICS	35	44	35	25.7	-20.5
PHARMACEUTICAL SCIENCES	389	421	369	8.2	-12.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,052	2,165	2,176	5.5	.5
PSYCHIATRY	44	16	18	-63.6	12.5
PULMONARY DISEASE	0	2	0	**	-100.0
RADIOLOGY	86	93	94	8.1	1.1
SPEECH PATHOLOGY/AUDIOLOGY	3,145	3,541	3,525	12.6	-.5
SURGERY	16	26	4	62.5	-84.6
VETERINARY SCIENCES	229	203	171	-11.4	-15.8
CLINICAL MEDICINE, N.E.C.	97	145	94	49.5	-35.2
HEALTH RELATED, N.E.C.	1,820	2,268	2,385	24.6	5.2
PSYCHOLOGY	14,580	15,187	15,097	4.2	-.6
SOCIAL SCIENCES	30,151	30,819	30,810	2.2	*
AGRICULTURAL ECONOMICS	654	712	705	8.9	-1.0
ANTHROPOLOGY	2,453	2,562	2,352	4.4	-8.2
ECONOMICS (EXCEPT AGRICULTURAL)	3,487	4,076	4,245	16.9	4.1
GEOGRAPHY	878	954	931	8.7	-2.4
HISTORY AND PHILOSOPHY OF SCIENCE	88	83	73	-5.7	-12.0
LINGUISTICS	758	989	935	30.5	-5.5
POLITICAL SCIENCE	8,392	7,732	8,465	-7.9	9.5
SOCIOLOGY	2,312	2,411	2,139	4.3	-11.3
SOCIOLOGY/ANTHROPOLOGY	221	251	197	13.6	-21.5
SOCIAL SCIENCES, N.E.C.	10,908	11,049	10,768	1.3	-2.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-26. -- SCIENCE/ENGINEERING POSTDOCTORATES IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	18,140	18,445	19,690	1.7	6.7
ENGINEERING	1,070	981	1,032	-8.3	5.2
AEROSPACE	32	20	14	-37.5	-30.0
AGRICULTURAL	25	9	9	-64.0	.0
BIOMEDICAL	32	28	34	-12.5	21.4
CHEMICAL	195	189	174	-3.1	-7.9
CIVIL	123	120	103	-2.4	-14.2
ELECTRICAL	142	123	189	-13.4	53.7
ENGINEERING SCIENCE	75	79	87	5.3	10.1
INDUSTRIAL	7	16	13	128.6	-18.8
MECHANICAL	143	137	123	-4.2	-10.2
METALLURGICAL/MATERIALS	209	171	194	-18.2	13.5
MINING	5	4	16	-20.0	300.0
NUCLEAR	20	22	26	10.0	18.2
PETROLEUM	6	6	2	.0	-66.7
ENGINEERING, N.E.C.	56	57	48	1.8	-15.8
PHYSICAL SCIENCES	4,051	4,276	4,467	5.6	4.5
ASTRONOMY	129	141	132	9.3	-6.4
CHEMISTRY	2,621	2,720	2,870	3.8	5.5
PHYSICS	1,299	1,400	1,450	7.8	3.6
PHYSICAL SCIENCES, N.E.C.	2	15	15	650.0	.0
ENVIRONMENTAL SCIENCES	315	311	346	-1.3	11.3
ATMOSPHERIC SCIENCES	34	43	46	26.5	7.0
GEOSCIENCES	219	195	219	-11.0	12.3
OCEANOGRAPHY	54	58	68	7.4	17.2
ENVIRONMENTAL SCIENCES, N.E.C.	8	15	13	87.5	-13.3
MATHEMATICAL/COMPUTER SCIENCES	200	205	148	2.5	-27.8
COMPUTER SCIENCE	75	62	49	-17.3	-21.0
MATHEMATICS AND APPLIED MATHEMATICS	102	122	88	19.6	-27.9
STATISTICS	23	21	11	-8.7	-47.6
LIFE SCIENCES	11,647	11,758	12,891	1.0	9.6
AGRICULTURAL SCIENCES	215	239	290	11.2	21.3
BIOLOGICAL SCIENCES	6,772	7,004	7,592	3.4	8.4
ANATOMY	254	249	258	-2.0	3.6
BIOCHEMISTRY	1,488	1,519	1,699	2.1	11.8
BIOLOGY	973	975	858	.2	-12.0
BIOMETRY/EPIDEMIOLOGY	68	72	62	5.9	-13.9
BIOPHYSICS	105	156	115	48.6	-26.3
BOTANY	163	220	240	35.0	9.1
CELL BIOLOGY	326	386	501	18.4	29.8
ECOLOGY	18	22	44	22.2	100.0
ENTOMOLOGY/PARASITOLOGY	104	119	127	14.4	6.7
GENETICS	231	251	290	8.7	15.5
MICROBIOLOGY	865	876	986	1.3	12.6
NUTRITION	170	129	171	-24.1	32.6
PATHOLOGY	433	476	470	9.9	-1.3
PHARMACOLOGY	633	624	749	-1.4	20.0
PHYSIOLOGY	676	663	754	-1.9	13.7
ZOOLOGY	180	168	178	-6.7	6.0
BIOSCIENCES, N.E.C.	85	99	90	16.5	-9.1
HEALTH SCIENCES	4,660	4,515	5,009	-3.1	10.9
ANESTHESIOLOGY	62	54	66	-12.9	22.2
CANCER/ONCOLOGY	110	133	119	20.9	-10.5
CARDIOLOGY	298	334	343	12.1	2.7
DENTISTRY	138	102	161	-26.1	57.8
ENDOCRINOLOGY	143	161	200	12.6	24.2
GASTROENTEROLOGY	103	123	114	19.4	-7.3
HEMATOLOGY	151	148	163	-2.0	10.1
NEUROLOGY	333	355	367	6.6	3.4
NURSING	7	9	10	28.6	11.1
OBSTETRICS/GYNECOLOGY	143	122	113	-14.7	-7.4
OPHTHALMOLOGY	138	122	144	-11.6	18.0
OTORHINOLARYNGOLOGY	35	46	41	31.4	-10.9
PEDIATRICS	511	427	559	-16.4	30.9
PHARMACEUTICAL SCIENCES	235	233	243	-.9	4.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	112	161	135	43.8	-16.1
PSYCHIATRY	292	296	292	1.4	-1.4
PULMONARY DISEASE	143	127	127	-11.2	.0
RADIOLOGY	138	156	165	13.0	5.8
SPEECH PATHOLOGY/AUDIOLOGY	35	16	17	-54.3	6.3
SURGERY	264	298	297	12.9	-.3
VETERINARY SCIENCES	26	61	46	134.6	-24.6
CLINICAL MEDICINE, N.E.C.	1,144	921	1,173	-19.5	27.4
HEALTH RELATED, N.E.C.	99	110	114	11.1	3.6
PSYCHOLOGY	454	474	473	4.4	-.2
SOCIAL SCIENCES	403	440	333	9.2	-24.3
AGRICULTURAL ECONOMICS	6	8	6	33.3	-25.0
ANTHROPOLOGY	44	42	31	-4.5	-26.2
ECONOMICS (EXCEPT AGRICULTURAL)	98	144	29	46.9	-79.9
GEOGRAPHY	5	15	23	200.0	53.3
HISTORY AND PHILOSOPHY OF SCIENCE	11	15	21	36.4	40.0
LINGUISTICS	30	54	47	80.0	-13.0
POLITICAL SCIENCE	30	32	47	6.7	46.9
SOCIOLOGY	115	100	90	-13.0	-10.0
SOCIOLOGY/ANTHROPOLOGY	4	2	0	-50.0	-100.0
SOCIAL SCIENCES, N.E.C.	60	28	39	-53.3	39.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-27. -- MALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	14,793	14,893	15,590	0.7	4.7
ENGINEERING	1,020	915	952	-10.3	4.0
AEROSPACE	32	20	12	-37.5	-40.0
AGRICULTURAL	24	8	9	-66.7	12.5
BIOMEDICAL	26	23	28	-11.5	21.7
CHEMICAL	182	168	162	-7.7	-3.6
CIVIL	118	109	95	-7.6	-12.8
ELECTRICAL	139	118	179	-15.1	51.7
ENGINEERING SCIENCE	71	74	84	4.2	13.5
INDUSTRIAL	6	16	10	166.7	-37.5
MECHANICAL	141	134	115	-5.0	-14.2
METALLURGICAL/MATERIALS	198	159	178	-19.7	11.9
MINING	5	4	11	-20.0	175.0
NUCLEAR	18	21	22	16.7	4.8
PETROLEUM	6	6	2	.0	-66.7
ENGINEERING, N.E.C.	54	55	45	1.9	-18.2
PHYSICAL SCIENCES	3,664	3,844	3,991	4.9	3.8
ASTRONOMY	119	128	122	7.6	-4.7
CHEMISTRY	2,315	2,386	2,503	3.1	4.9
PHYSICS	1,229	1,315	1,351	7.0	2.7
PHYSICAL SCIENCES, N.E.C.	1	15	15	1400.0	.0
ENVIRONMENTAL SCIENCES	285	277	312	-2.8	12.6
ATMOSPHERIC SCIENCES	33	41	42	24.2	2.4
GEOSCIENCES	193	173	198	-10.4	14.5
OCEANOGRAPHY	51	49	59	-3.9	20.4
ENVIRONMENTAL SCIENCES, N.E.C.	8	14	13	75.0	-7.1
MATHEMATICAL/COMPUTER SCIENCES	178	189	129	6.2	-31.7
COMPUTER SCIENCE	69	59	40	-14.5	-32.2
MATHEMATICS AND APPLIED MATHEMATICS	89	110	79	23.6	-28.2
STATISTICS	20	20	10	.0	-50.0
LIFE SCIENCES	9,087	9,051	9,690	-.4	7.1
AGRICULTURAL SCIENCES	189	209	254	10.6	21.5
BIOLOGICAL SCIENCES	5,085	5,221	5,585	2.7	7.0
ANATOMY	186	181	182	-2.7	.6
BIOCHEMISTRY	1,154	1,152	1,284	-.2	11.5
BIOLOGY	709	694	585	-2.1	-15.7
BIOMETRY/EPIDEMIOLOGY	40	47	40	17.5	-14.9
BIOPHYSICS	82	117	99	42.7	-15.4
BOTANY	124	161	178	29.8	10.6
CELL BIOLOGY	241	279	357	15.8	28.0
ECOLOGY	17	19	33	11.8	73.7
ENTOMOLOGY/PARASITOLOGY	81	100	107	23.5	7.0
GENETICS	159	164	185	3.1	12.8
MICROBIOLOGY	626	641	707	2.4	10.3
NUTRITION	121	98	121	-19.0	23.5
PATHOLOGY	329	363	368	10.3	1.4
PHARMACOLOGY	493	495	592	.4	19.6
PHYSIOLOGY	542	525	572	-3.1	9.0
ZOOLOGY	123	119	110	-3.3	-7.6
BIOSCIENCES, N.E.C.	58	66	65	13.8	-1.5
HEALTH SCIENCES	3,813	3,621	3,851	-5.0	6.4
ANESTHESIOLOGY	59	49	50	-16.9	2.0
CANCER/ONCOLOGY	96	112	88	16.7	-21.4
CARDIOLOGY	270	292	297	8.1	1.7
DENTISTRY	113	82	136	-27.4	65.9
ENDOCRINOLOGY	122	129	162	5.7	25.6
GASTROENTEROLOGY	84	106	93	26.2	-12.3
HEMATOLOGY	129	125	131	-3.1	4.8
NEUROLOGY	277	281	298	1.4	6.0
NURSING	3	2	8	-33.3	300.0
OBSTETRICS/GYNECOLOGY	118	94	75	-20.3	-20.2
OPHTHALMOLOGY	108	96	111	-11.1	15.6
OTORHINOLARYNGOLOGY	29	40	35	37.9	-12.5
PEDIATRICS	375	310	364	-17.3	17.4
PHARMACEUTICAL SCIENCES	202	209	207	3.5	-1.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	89	101	88	13.5	-12.9
PSYCHIATRY	197	199	180	1.0	-9.5
PULMONARY DISEASE	132	114	118	-13.6	3.5
RADIOLOGY	116	134	123	15.5	-8.2
SPEECH PATHOLOGY/AUDIOLOGY	20	11	9	-45.0	-18.2
SURGERY	233	273	277	17.2	1.5
VETERINARY SCIENCES	17	44	25	158.8	-43.2
CLINICAL MEDICINE, N.E.C.	950	748	893	-21.3	19.4
HEALTH RELATED, N.E.C.	74	70	83	-5.4	18.6
PSYCHOLOGY	298	301	291	1.0	-3.3
SOCIAL SCIENCES	261	316	225	21.1	-28.8
AGRICULTURAL ECONOMICS	6	8	6	33.3	-25.0
ANTHROPOLOGY	26	23	16	-11.5	-30.4
ECONOMICS (EXCEPT AGRICULTURAL)	81	119	21	46.9	-82.4
GEOGRAPHY	2	12	16	500.0	33.3
HISTORY AND PHILOSOPHY OF SCIENCE	8	12	15	50.0	25.0
LINGUISTICS	19	38	32	100.0	-15.8
POLITICAL SCIENCE	18	25	38	38.9	52.0
SOCIOLOGY	73	58	54	-20.5	-6.9
SOCIOLOGY/ANTHROPOLOGY	2	0	0	-100.0	**
SOCIAL SCIENCES, N.E.C.	26	21	27	-19.2	28.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-28. -- FEMALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	3,347	3,552	4,100	6.1	15.4
ENGINEERING	50	66	80	32.0	21.2
AEROSPACE	0	0	2	**	**
AGRICULTURAL	1	1	0	.0	-100.0
BIOMEDICAL	6	5	6	-16.7	20.0
CHEMICAL	13	21	12	61.5	-42.9
CIVIL	5	11	8	120.0	-27.3
ELECTRICAL	3	5	10	66.7	100.0
ENGINEERING SCIENCE	4	5	3	25.0	-40.0
INDUSTRIAL	1	0	3	-100.0	**
MECHANICAL	2	3	8	50.0	166.7
METALLURGICAL/MATERIALS	11	12	16	9.1	33.3
MINING	0	0	5	**	**
NUCLEAR	2	1	4	-50.0	300.0
PETROLEUM	0	0	0	0	0
ENGINEERING, N.E.C.	2	2	3	.0	50.0
PHYSICAL SCIENCES	387	432	476	11.6	10.2
ASTRONOMY	10	13	10	30.0	-23.1
CHEMISTRY	306	334	367	9.2	9.9
PHYSICS	70	85	99	21.4	16.5
PHYSICAL SCIENCES, N.E.C.	1	0	0	-100.0	**
ENVIRONMENTAL SCIENCES	30	34	34	13.3	.0
ATMOSPHERIC SCIENCES	1	2	4	100.0	100.0
GEOSCIENCES	26	22	21	-15.4	-4.5
OCEANOGRAPHY	3	9	9	200.0	.0
ENVIRONMENTAL SCIENCES, N.E.C.	0	1	0	**	-100.0
MATHEMATICAL/COMPUTER SCIENCES	22	16	19	-27.3	18.8
COMPUTER SCIENCE	6	3	9	-50.0	200.0
MATHEMATICS AND APPLIED MATHEMATICS	13	12	9	-7.7	-25.0
STATISTICS	3	1	1	-66.7	.0
LIFE SCIENCES	2,560	2,707	3,201	5.7	18.2
AGRICULTURAL SCIENCES	26	30	36	15.4	20.0
BIOLOGICAL SCIENCES	1,687	1,783	2,007	5.7	12.6
ANATOMY	68	68	76	.0	11.8
BIOCHEMISTRY	334	367	415	9.9	13.1
BIOLOGY	264	281	273	6.4	-2.8
BIOMETRY/EPIDEMIOLOGY	28	25	22	-10.7	-12.0
BIOPHYSICS	23	39	16	69.6	-59.0
BOTANY	39	59	62	51.3	5.1
CELL BIOLOGY	85	107	144	25.9	34.6
ECOLOGY	1	3	11	200.0	266.7
ENTOMOLOGY/PARASITOLOGY	23	19	20	-17.4	5.3
GENETICS	72	87	105	20.8	20.7
MICROBIOLOGY	239	235	279	-1.7	18.7
NUTRITION	49	31	50	-36.7	61.3
PATHOLOGY	104	113	102	8.7	-9.7
PHARMACOLOGY	140	129	157	-7.9	21.7
PHYSIOLOGY	134	138	182	3.0	31.9
ZOOLOGY	57	49	68	-14.0	38.8
BIOSCIENCES, N.E.C.	27	33	25	22.2	-24.2
HEALTH SCIENCES	847	894	1,158	5.5	29.5
ANESTHESIOLOGY	3	5	16	66.7	220.0
CANCER/ONCOLOGY	14	21	31	50.0	47.6
CARDIOLOGY	28	42	46	50.0	9.5
DENTISTRY	25	20	25	-20.0	25.0
ENDOCRINOLOGY	21	32	38	52.4	18.8
GASTROENTEROLOGY	19	17	21	-10.5	23.5
HEMATOLOGY	22	23	32	4.5	39.1
NEUROLOGY	56	74	69	32.1	-6.8
NURSING	4	7	2	75.0	-71.4
OBSTETRICS/GYNECOLOGY	25	28	38	12.0	35.7
OPHTHALMOLOGY	30	26	33	-13.3	26.9
OTORHINOLARYNGOLOGY	6	6	6	.0	.0
PEDIATRICS	136	117	195	-14.0	66.7
PHARMACEUTICAL SCIENCES	33	24	36	-27.3	50.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	23	60	47	160.9	-21.7
PSYCHIATRY	95	97	112	2.1	15.5
PULMONARY DISEASE	11	13	9	18.2	-30.8
RADIOLOGY	22	22	42	.0	90.9
SPEECH PATHOLOGY/AUDIOLOGY	15	5	8	-66.7	60.0
SURGERY	31	25	20	-19.4	-20.0
VETERINARY SCIENCES	9	17	21	88.9	23.5
CLINICAL MEDICINE, N.E.C.	194	173	280	-10.8	61.8
HEALTH RELATED, N.E.C.	25	40	31	60.0	-22.5
PSYCHOLOGY	156	173	182	10.9	5.2
SOCIAL SCIENCES	142	124	108	-12.7	-12.9
AGRICULTURAL ECONOMICS	0	0	0	0	0
ANTHROPOLOGY	18	19	15	5.6	-21.1
ECONOMICS (EXCEPT AGRICULTURAL)	17	25	8	47.1	-68.0
GEOGRAPHY	3	3	7	.0	133.3
HISTORY AND PHILOSOPHY OF SCIENCE	3	3	6	.0	100.0
LINGUISTICS	11	16	15	45.5	-6.3
POLITICAL SCIENCE	12	7	9	-41.7	28.6
SOCIOLOGY	42	42	36	.0	-14.3
SOCIOLOGY/ANTHROPOLOGY	2	2	0	.0	-100.0
SOCIAL SCIENCES, N.E.C.	34	7	12	-79.4	71.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-1. -- SCIENCE/ENGINEERING GRADUATE STUDENTS
IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	265,289	293,754	298,160	306,570	309,841	320,595	333,899	340,203	3.9	1.9	3.6
ENGINEERING	56,641	64,729	64,284	65,910	65,912	68,940	72,297	76,986	4.2	6.5	4.5
AEROSPACE	1,654	1,636	1,449	1,496	1,450	1,476	1,730	1,842	.8	6.5	1.5
AGRICULTURAL	518	599	651	718	751	753	752	812	6.4	8.0	6.6
BIOMEDICAL	798	893	916	861	927	993	953	1,002	3.0	5.1	3.3
CHEMICAL	4,733	5,062	5,194	5,217	5,336	5,574	6,062	6,479	4.2	6.9	4.6
CIVIL	10,115	11,339	10,603	10,817	10,865	11,040	11,270	11,494	1.8	2.0	1.8
ELECTRICAL	15,361	15,607	15,211	16,356	16,478	16,818	18,162	18,905	2.8	4.1	3.0
ENGINEERING SCIENCE	1,671	1,666	1,735	1,664	1,729	1,574	1,698	1,803	.3	6.2	1.1
INDUSTRIAL	6,049	10,963	11,077	10,690	10,143	11,384	10,747	11,241	10.1	4.6	9.3
MECHANICAL	8,049	8,093	7,929	8,193	8,181	8,640	9,242	10,110	2.3	9.4	3.3
METALLURGICAL/MATERIALS	2,153	2,299	2,316	2,468	2,462	2,639	2,815	3,028	4.6	7.6	5.0
MINING	385	498	631	613	570	516	526	570	5.3	8.4	5.8
NUCLEAR	1,460	1,611	1,588	1,472	1,431	1,352	1,282	1,321	-2.1	3.0	-1.4
PETROLEUM	278	302	376	379	427	423	500	518	10.3	3.6	9.3
ENGINEERING, N.E.C.	3,417	4,161	4,608	4,966	5,162	5,758	6,558	7,861	11.5	19.9	12.6
PHYSICAL SCIENCES	24,521	24,563	24,848	24,852	24,749	24,914	25,415	25,808	.6	1.5	.7
ASTRONOMY	712	711	681	644	618	638	628	597	-2.1	-4.9	-2.5
CHEMISTRY	13,725	14,060	14,404	14,603	14,802	14,886	15,110	15,253	1.6	.9	1.5
PHYSICS	9,956	9,678	9,674	9,514	9,241	9,323	9,596	9,883	-.6	3.0	-.1
PHYSICAL SCIENCES, N.E.C.	128	114	89	91	88	67	81	75	-7.3	-7.4	-7.4
ENVIRONMENTAL SCIENCES	10,015	10,804	11,316	11,765	11,721	12,053	12,253	12,643	3.4	3.2	3.4
ATMOSPHERIC SCIENCES	966	937	930	919	907	880	904	905	-1.1	.1	-.9
GEOSCIENCES	6,243	6,672	7,039	7,268	7,405	7,762	7,927	8,161	4.1	3.0	3.9
OCEANOGRAPHY	1,645	1,710	1,738	1,935	1,855	1,850	1,873	1,948	2.2	4.0	2.4
ENVIRONMENTAL SCIENCES, N.E.C.	1,161	1,485	1,609	1,643	1,554	1,561	1,549	1,629	4.9	5.2	5.0
MATHEMATICAL/COMPUTER SCIENCES	20,605	21,343	21,667	21,071	21,474	22,622	24,981	27,060	3.3	8.3	4.0
COMPUTER SCIENCE	6,309	6,952	7,321	7,585	8,628	9,914	11,772	13,552	11.0	15.1	11.5
MATHEMATICS AND APPLIED MATHEMATICS	12,712	12,595	12,513	11,690	11,111	10,960	11,331	11,673	-1.9	3.0	-1.2
STATISTICS	1,584	1,796	1,833	1,796	1,735	1,748	1,878	1,835	2.9	-2.3	2.1
LIFE SCIENCES	66,738	73,574	77,317	83,570	86,103	87,663	90,852	91,206	5.3	.4	4.6
AGRICULTURAL SCIENCES	8,924	10,044	10,584	10,929	11,066	11,272	11,638	11,332	4.5	-2.6	3.5
BIOLOGICAL SCIENCES	37,590	40,624	41,583	42,746	42,680	42,078	42,059	41,292	1.9	-1.8	1.4
ANATOMY	1,033	1,074	1,112	1,150	1,112	1,098	1,060	1,040	.4	-1.9	.1
BIOCHEMISTRY	3,718	3,655	3,680	3,756	3,914	3,850	3,847	3,858	.6	.3	.5
BIOLOGY	9,824	11,583	11,919	11,786	11,267	11,003	10,910	10,276	1.8	-5.8	.6
BIOMETRY/EPIDEMIOLOGY	718	871	884	1,070	1,147	1,133	1,265	1,207	9.9	-4.6	7.7
BIOPHYSICS	638	728	624	599	564	564	522	500	-3.3	-4.2	-3.4
BOTANY	3,346	3,445	3,703	3,821	3,746	3,575	3,561	3,412	1.0	-4.2	.3
CELL BIOLOGY	561	636	595	658	668	706	799	871	6.1	9.0	6.5
ECOLOGY	631	789	885	1,020	1,090	954	1,080	1,003	9.4	-7.1	6.8
ENTOMOLOGY/PARASITOLOGY	1,361	1,557	1,590	1,592	1,673	1,681	1,703	1,654	3.8	-2.9	2.8
GENETICS	784	814	832	954	939	902	896	872	2.3	-2.7	1.5
MICROBIOLOGY	3,798	3,853	3,978	4,083	3,966	3,812	3,786	3,697	-.1	-2.4	-.4
NUTRITION	2,664	2,710	2,998	3,579	3,707	3,651	3,795	4,071	6.1	7.3	6.2
PATHOLOGY	1,047	1,269	1,345	1,440	1,467	1,532	1,469	1,430	5.8	-2.7	4.6
PHARMACOLOGY	1,418	1,585	1,689	1,774	1,879	1,981	1,991	1,987	5.8	-.2	4.9
PHYSIOLOGY	2,187	2,210	2,129	2,008	2,125	2,134	2,054	2,098	-1.0	2.1	-.6
ZOOLOGY	3,497	3,493	3,243	3,024	2,979	2,862	2,650	2,601	-4.5	-1.8	-4.1
BIOSCIENCES, N.E.C.	365	352	377	432	437	640	671	715	10.7	6.6	10.1
HEALTH SCIENCES	20,224	22,906	25,150	29,895	32,357	34,313	37,155	38,582	10.7	3.8	9.7
ANESTHESIOLOGY	59	55	5	5	10	20	17	20	-18.7	17.6	-14.3
CANCER/ONCOLOGY	85	59	47	51	49	47	46	46	-9.7	.0	-8.4
CARDIOLOGY	47	23	2	5	3	3	17	5	-15.6	-70.6	-27.4
DENTISTRY	997	1,231	1,153	1,237	1,268	1,325	1,287	1,297	4.3	.8	3.8
ENDOCRINOLOGY	31	42	37	38	36	50	53	51	9.4	-3.8	7.4
GASTROENTEROLOGY	47	15	8	8	5	0	0	4	-100.0	**	-29.7
HEMATOLOGY	22	3	4	18	17	20	16	9	-5.2	-43.8	-12.0
NEUROLOGY	267	333	312	323	347	353	358	319	5.0	-10.9	2.6
NURSING	3,872	4,769	6,622	9,987	10,844	11,601	12,750	14,199	22.0	11.4	20.4
OBSTETRICS/GYNECOLOGY	70	53	59	27	26	36	6	13	-33.6	116.7	-21.4
OPHTHALMOLOGY	45	30	13	16	3	6	16	22	-15.8	37.5	-9.7
OTORHINOLARYNGOLOGY	69	54	68	57	46	26	18	15	-20.1	-16.7	-19.6
PEDIATRICS	221	183	215	152	137	91	116	121	-10.2	4.3	-8.2
PHARMACEUTICAL SCIENCES	1,998	2,245	2,217	2,487	2,509	2,458	2,470	2,590	3.6	4.9	3.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,532	3,766	4,383	4,522	5,494	6,277	6,984	7,064	12.0	1.1	10.4
PSYCHIATRY	249	176	147	150	140	133	63	106	-20.5	68.3	-11.5
PULMONARY DISEASE	47	7	0	3	10	1	15	9	-17.3	-40.0	-21.0
RADIOLOGY	335	377	282	307	245	280	280	275	-2.9	-1.8	-2.8
SPEECH PATHOLOGY/AUDIOLOGY	5,123	6,313	6,254	6,522	6,812	6,563	6,868	6,645	5.0	-3.2	3.8
SURGERY	137	124	117	99	90	52	66	75	-11.5	13.6	-8.2
VETERINARY SCIENCES	606	661	721	807	808	905	893	904	6.7	1.2	5.9
CLINICAL MEDICINE, N.E.C.	521	272	240	314	294	345	397	377	-4.4	-5.0	-4.5
HEALTH RELATED, N.E.C.	1,844	2,115	2,244	2,760	3,164	3,721	4,419	4,416	15.7	-.1	13.3
PSYCHOLOGY	24,853	26,904	28,022	28,004	27,841	27,920	29,370	28,957	2.8	-1.4	2.2
SOCIAL SCIENCES	61,916	71,837	70,706	71,398	72,041	76,483	78,731	77,543	4.1	-1.5	3.3
AGRICULTURAL ECONOMICS	1,714	2,090	2,135	2,177	2,204	2,176	2,295	2,231	5.0	-2.8	3.8
ANTHROPOLOGY	5,744	6,226	6,206	6,188	5,893	5,911	5,923	5,802	.5	-2.0	.1
ECONOMICS (EXCEPT AGRICULTURAL)	9,966	10,937	10,892	11,035	11,146	11,196	12,166	12,334	3.4	1.4	3.1
GEOGRAPHY	2,795	2,958	3,086	2,899	2,851	2,650	2,791	2,785	*	-.2	-.1
HISTORY AND PHILOSOPHY OF SCIENCE	287	303	322	300	281	265	280	248	-.4	-11.4	-2.1
LINGUISTICS	1,885	2,363	2,437	2,282	2,197	2,811	2,748	2,906	6.5	5.7	6.4
POLITICAL SCIENCE	16,229	20,736	20,275	20,395	21,056	23,981	24,790	24,356	7.3	-1.8	6.0
SOCIOLOGY	8,536	8,762	8,577	8,119	7,414	7,590	7,610	7,352	-1.9	-3.4	-2.1
SOCIOLOGY/ANTHROPOLOGY	1,224	1,465	1,165	1,135	1,053	1,045	1,001	967	-3.3	-3.4	-3.3
SOCIAL SCIENCES, N.E.C.	13,536	15,997	15,611	16,868	17,946	18,858	19,127	18,562	5.9	-3.0	4.6

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-2. -- SCIENCE/ENGINEERING GRADUATE STUDENTS
IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	186,274	204,153	205,905	209,044	210,681	216,506	224,913	226,785	3.2	0.8	2.9
ENGINEERING	36,132	39,151	38,792	39,040	39,000	40,460	43,073	45,573	3.0	5.8	3.4
AEROSPACE	1,191	1,172	1,063	1,059	1,021	1,037	1,208	1,288	.2	6.6	1.1
AGRICULTURAL	481	563	618	662	711	716	714	768	6.8	7.6	6.9
BIOMEDICAL	376	440	505	444	471	507	515	553	5.4	7.4	5.7
CHEMICAL	3,212	3,515	3,487	3,488	3,547	3,735	4,139	4,343	4.3	4.9	4.4
CIVIL	6,771	7,399	7,069	7,381	7,437	7,407	7,525	7,569	1.8	.6	1.6
ELECTRICAL	8,734	9,016	8,773	9,222	9,041	9,307	9,925	10,345	2.2	4.2	2.4
ENGINEERING SCIENCE	1,096	1,140	1,211	1,185	1,142	1,001	1,102	1,206	.1	9.4	1.4
INDUSTRIAL	3,564	4,266	4,239	3,748	3,700	4,094	4,143	4,206	2.5	1.5	2.4
MECHANICAL	5,380	5,579	5,409	5,243	5,357	5,528	5,957	6,523	1.7	9.5	2.8
METALLURGICAL/MATERIALS	1,283	1,383	1,404	1,458	1,469	1,601	1,663	1,771	4.4	6.5	4.7
MINING	316	416	537	527	483	433	443	488	5.8	10.2	6.4
NUCLEAR	1,000	1,128	1,164	1,085	1,042	1,000	951	993	-.8	4.4	-.1
PETROLEUM	126	155	226	228	262	247	269	268	13.5	-.4	11.4
ENGINEERING, N.E.C.	2,602	2,979	3,087	3,390	3,317	3,847	4,519	5,252	9.6	16.2	10.6
PHYSICAL SCIENCES	16,850	17,084	17,260	17,280	17,249	17,438	17,753	18,037	.9	1.6	1.0
ASTRONOMY	494	483	452	420	411	421	421	393	-2.6	-6.7	-3.2
CHEMISTRY	9,744	10,016	10,282	10,361	10,499	10,624	10,798	10,890	1.7	.9	1.6
PHYSICS	6,502	6,484	6,437	6,408	6,263	6,326	6,465	6,691	-.1	3.5	.4
PHYSICAL SCIENCES, N.E.C.	110	101	89	91	76	67	69	63	-7.5	-8.7	-7.7
ENVIRONMENTAL SCIENCES	8,055	8,855	9,366	9,723	9,661	10,121	10,254	10,589	4.1	3.3	4.0
ATMOSPHERIC SCIENCES	808	858	865	864	861	833	831	813	.5	-2.2	.1
GEOSCIENCES	4,773	5,098	5,447	5,703	5,855	6,203	6,380	6,589	5.0	3.3	4.7
OCEANOGRAPHY	1,381	1,476	1,508	1,584	1,500	1,638	1,630	1,710	2.8	4.9	3.1
ENVIRONMENTAL SCIENCES, N.E.C.	1,093	1,423	1,546	1,572	1,445	1,447	1,413	1,477	4.4	4.5	4.4
MATHEMATICAL/COMPUTER SCIENCES	14,602	15,491	15,772	14,949	15,092	15,463	16,693	17,294	2.3	3.6	2.4
COMPUTER SCIENCE	4,563	5,133	5,515	5,321	5,845	6,380	7,478	8,037	8.6	7.5	8.4
MATHEMATICS AND APPLIED MATHEMATICS	8,780	8,925	8,786	8,160	7,813	7,633	7,664	7,729	-2.2	.8	-1.8
STATISTICS	1,259	1,433	1,471	1,468	1,434	1,450	1,551	1,528	3.5	-1.5	2.8
LIFE SCIENCES	52,330	57,980	60,508	63,872	65,584	66,515	69,033	68,319	4.7	-1.0	3.9
AGRICULTURAL SCIENCES	8,698	9,793	10,332	10,664	10,790	10,955	11,344	11,040	4.5	-2.7	3.5
BIOLOGICAL SCIENCES	28,188	30,315	30,780	31,555	31,531	30,959	31,174	30,391	1.7	-2.5	1.1
ANATOMY	684	735	769	778	751	735	675	657	-.2	-2.7	-.6
BIOCHEMISTRY	2,607	2,622	2,651	2,690	2,725	2,667	2,655	2,612	.3	-1.6	*
BIOLOGY	6,271	7,355	7,576	7,421	7,224	7,061	7,204	6,704	2.3	-6.9	1.0
BIOMETRY/EPIDEMIOLOGY	453	488	444	589	666	645	750	691	8.8	-7.9	6.2
BIOPHYSICS	450	503	392	370	360	360	325	310	-5.3	-4.6	-5.2
BOTANY	3,102	3,196	3,451	3,577	3,478	3,310	3,286	3,138	1.0	-4.5	.2
CELL BIOLOGY	308	353	365	423	417	446	480	493	7.7	2.7	7.0
ECOLOGY	572	729	818	962	1,030	902	1,030	948	10.3	-8.0	7.5
ENTOMOLOGY/PARASITOLOGY	1,289	1,484	1,527	1,532	1,600	1,613	1,645	1,594	4.1	-3.1	3.1
GENETICS	643	633	644	731	722	694	657	643	.4	-2.1	.0
MICROBIOLOGY	3,037	3,039	3,086	3,126	3,054	2,919	2,927	2,796	-.6	-4.5	-1.2
NUTRITION	2,148	2,166	2,375	2,831	2,962	2,868	3,005	3,212	5.8	6.9	5.9
PATHOLOGY	663	810	724	792	819	878	853	834	4.3	-2.2	3.3
PHARMACOLOGY	970	1,118	1,161	1,185	1,238	1,336	1,332	1,349	5.4	1.3	4.8
PHYSIOLOGY	1,595	1,643	1,543	1,450	1,451	1,417	1,407	1,438	-2.1	2.2	-1.5
ZOOLOGY	3,264	3,291	3,060	2,845	2,767	2,648	2,454	2,430	-4.6	-1.0	-4.1
BIOSCIENCES, N.E.C.	132	150	194	253	267	460	489	542	24.4	10.8	22.4
HEALTH SCIENCES	15,444	17,872	19,396	21,653	23,263	24,601	26,515	26,888	9.4	1.4	8.2
ANESTHESIOLOGY	12	14	5	2	3	14	13	15	1.3	15.4	3.2
CANCER/ONCOLOGY	52	59	47	49	49	47	46	46	-2.0	.0	-1.7
CARDIOLOGY	20	20	2	2	2	1	0	0	-100.0	**	-100.0
DENTISTRY	611	731	751	810	820	815	841	855	5.5	1.7	4.9
ENDOCRINOLOGY	28	41	34	33	33	50	53	51	11.2	-3.8	8.9
GASTROENTEROLOGY	39	11	8	8	5	0	0	3	-100.0	**	-30.7
HEMATOLOGY	21	3	3	1	3	10	8	6	-14.9	-25.0	-16.4
NEUROLOGY	164	177	169	192	213	229	213	183	4.5	-14.1	1.6
NURSING	3,535	4,302	5,414	6,975	7,790	8,297	9,396	9,937	17.7	5.8	15.9
OBSTETRICS/GYNECOLOGY	63	45	42	17	17	21	1	2	-49.9	100.0	-38.9
OPHTHALMOLOGY	24	11	7	13	2	4	11	13	-12.2	18.2	-8.4
OTORHINOLARYNGOLOGY	44	40	52	31	31	24	12	11	-19.5	-8.3	-18.0
PEDIATRICS	192	161	199	130	114	66	84	92	-12.9	9.5	-10.0
PHARMACEUTICAL SCIENCES	1,435	1,484	1,492	1,599	1,590	1,581	1,650	1,708	2.4	3.5	2.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,393	2,745	3,138	3,162	3,544	4,157	4,456	4,436	10.9	-.4	9.2
PSYCHIATRY	128	57	52	69	73	78	60	72	-11.9	20.0	-7.9
PULMONARY DISEASE	24	5	0	3	9	1	7	7	-18.6	.0	-16.1
RADIOLOGY	222	263	177	211	181	217	213	177	-.7	-16.9	-3.2
SPEECH PATHOLOGY/AUDIOLOGY	4,257	5,187	5,295	5,558	5,765	5,500	5,675	5,507	4.9	-3.0	3.7
SURGERY	125	103	83	66	69	38	46	35	-15.3	-23.9	-16.6
VETERINARY SCIENCES	569	614	669	748	750	846	842	856	6.7	1.7	6.0
CLINICAL MEDICINE, N.E.C.	377	241	211	296	259	301	323	314	-2.5	-2.8	-2.6
HEALTH RELATED, N.E.C.	1,109	1,558	1,546	1,678	1,941	2,304	2,565	2,562	15.0	-.1	12.7
PSYCHOLOGY	15,753	17,042	16,910	16,719	16,154	16,135	16,759	16,456	1.0	-1.8	.6
SOCIAL SCIENCES	42,552	48,550	47,297	47,461	47,941	50,374	51,348	50,517	3.2	-1.6	2.5
AGRICULTURAL ECONOMICS	1,611	2,001	2,055	2,098	2,119	2,076	2,168	2,129	5.1	-1.8	4.1
ANTHROPOLOGY	3,999	4,331	4,513	4,455	4,273	4,344	4,255	4,130	1.0	-2.9	.5
ECONOMICS (EXCEPT AGRICULTURAL)	6,317	7,113	6,906	6,873	7,092	6,938	7,506	7,487	2.9	-.3	2.5
GEOGRAPHY	2,500	2,632	2,802	2,634	2,570	2,396	2,505	2,511	*	.2	.1
HISTORY AND PHILOSOPHY OF SCIENCE	152	150	164	163	153	148	165	141	1.4	-14.5	-1.1
LINGUISTICS	1,293	1,485	1,503	1,526	1,503	1,642	1,671	1,840	4.4	10.1	5.2
POLITICAL SCIENCE	9,940	11,948	11,266	11,408	11,365	12,961	13,451	13,289	5.2	-1.2	4.2
SOCIOLOGY	5,958	6,144	5,870	5,563	5,292	5,357	5,284	5,027	-2.0	-4.9	-2.4
SOCIOLOGY/ANTHROPOLOGY	815	1,074	824	762	702	678	643	577	-3.9	-10.3	-4.8
SOCIAL SCIENCES, N.E.C.	9,967	11,672	11,394	11,989	12,872	13,834	13,700	13,386	5.4	-2.3	4.3

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-3. -- SCIENCE/ENGINEERING GRADUATE STUDENTS
IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	79,015	89,601	92,255	97,526	99,160	104,089	108,986	113,418	5.5	4.1	5.3
ENGINEERING	20,509	25,578	25,492	26,870	26,912	28,480	29,224	31,413	6.1	7.5	6.3
AEROSPACE	463	464	386	437	429	439	522	554	2.0	6.1	2.6
AGRICULTURAL	37	36	33	36	40	37	38	44	.4	15.8	2.5
BIOMEDICAL	422	453	411	417	456	486	438	449	.6	2.5	.9
CHEMICAL	1,521	1,547	1,707	1,739	1,789	1,839	1,923	2,136	4.0	11.1	5.0
CIVIL	3,344	3,940	3,534	3,456	3,428	3,633	3,745	3,925	1.9	4.8	2.3
ELECTRICAL	6,627	6,591	6,438	7,124	7,437	7,511	8,237	8,560	3.7	3.9	3.7
ENGINEERING SCIENCE	575	526	524	559	587	573	596	597	.6	.2	.5
INDUSTRIAL	2,485	6,697	6,838	6,942	6,443	7,290	6,604	7,035	17.7	6.5	16.0
MECHANICAL	2,669	2,514	2,520	2,950	2,824	3,112	3,285	3,587	3.5	9.2	4.3
METALLURGICAL/MATERIALS	870	916	912	1,010	993	1,038	1,152	1,257	4.8	9.1	5.4
MINING	69	82	94	86	87	83	83	82	3.1	-1.2	2.5
NUCLEAR	460	483	424	387	389	352	331	328	-5.3	-.9	-4.7
PETROLEUM	152	147	150	151	165	176	231	250	7.2	8.2	7.4
ENGINEERING, N.E.C.	815	1,182	1,521	1,576	1,845	1,911	2,039	2,609	16.5	28.0	18.1
PHYSICAL SCIENCES	7,671	7,479	7,588	7,572	7,500	7,476	7,662	7,771	*	1.4	.2
ASTRONOMY	218	228	229	224	207	217	207	204	-.9	-1.4	-.9
CHEMISTRY	3,981	4,044	4,122	4,242	4,303	4,262	4,312	4,363	1.3	1.2	1.3
PHYSICS	3,454	3,194	3,237	3,106	2,978	2,997	3,131	3,192	-1.6	1.9	-1.1
PHYSICAL SCIENCES, N.E.C.	18	13	0	0	12	0	12	12	-6.5	.0	-5.6
ENVIRONMENTAL SCIENCES	1,960	1,949	1,950	2,042	2,060	1,932	1,999	2,054	.3	2.8	.7
ATMOSPHERIC SCIENCES	158	79	65	55	46	47	73	92	-12.1	26.0	-7.4
GEOSCIENCES	1,470	1,574	1,592	1,565	1,550	1,559	1,547	1,572	.9	1.6	1.0
OCEANOGRAPHY	264	234	230	351	355	212	243	238	-1.4	-2.1	-1.5
ENVIRONMENTAL SCIENCES, N.E.C.	68	62	63	71	109	114	136	152	12.2	11.8	12.2
MATHEMATICAL/COMPUTER SCIENCES	6,003	5,852	5,895	6,122	6,382	7,159	8,288	9,766	5.5	17.8	7.2
COMPUTER SCIENCE	1,746	1,819	1,806	2,264	2,783	3,534	4,294	5,515	16.2	28.4	17.9
MATHEMATICS AND APPLIED MATHEMATICS	3,932	3,670	3,727	3,530	3,298	3,327	3,667	3,944	-1.2	7.6	*
STATISTICS	325	363	362	328	301	298	327	307	.1	-6.1	-.8
LIFE SCIENCES	14,408	15,594	16,809	19,698	20,519	21,148	21,819	22,887	7.2	4.9	6.8
AGRICULTURAL SCIENCES	226	251	252	265	276	317	294	292	4.5	-.7	3.7
BIOLOGICAL SCIENCES	9,402	10,309	10,803	11,191	11,149	11,119	10,885	10,901	2.5	.1	2.1
ANATOMY	349	339	343	372	361	363	385	383	1.6	-.5	1.3
BIOCHEMISTRY	1,111	1,033	1,029	1,066	1,189	1,183	1,192	1,246	1.2	4.5	1.7
BIOLOGY	3,553	4,228	4,343	4,365	4,043	3,942	3,706	3,572	.7	-3.6	.1
BIOMETRY/EPIDEMIOLOGY	265	383	440	481	481	488	515	516	11.7	.2	10.0
BIOPHYSICS	188	225	232	229	204	204	197	190	.8	-3.6	.2
BOTANY	244	249	252	244	268	265	275	274	2.0	-.4	1.7
CELL BIOLOGY	253	283	230	235	251	260	319	378	3.9	18.5	5.9
ECOLOGY	59	60	67	58	60	52	50	55	-2.7	10.0	-1.0
ENTOMOLOGY/PARASITOLOGY	72	73	63	60	73	68	58	60	-3.5	3.4	-2.6
GENETICS	141	181	188	223	217	208	239	229	9.2	-4.2	7.2
MICROBIOLOGY	761	814	892	957	912	893	859	901	2.0	4.9	2.4
NUTRITION	516	544	623	748	745	783	790	859	7.4	8.7	7.6
PATHOLOGY	384	459	621	648	648	656	616	596	8.2	-3.2	6.5
PHARMACOLOGY	448	467	528	589	641	645	659	638	6.6	-3.2	5.2
PHYSIOLOGY	592	567	586	558	674	717	647	660	1.5	2.0	1.6
ZOOLOGY	233	202	183	179	212	216	196	171	-2.8	-12.8	-4.3
BIOSCIENCES, N.E.C.	233	202	183	179	170	180	182	173	-4.0	-4.9	-4.2
HEALTH SCIENCES	4,780	5,034	5,754	8,242	9,094	9,712	10,640	11,694	14.3	9.9	13.6
ANESTHESIOLOGY	47	41	0	3	7	6	4	5	-33.7	25.0	-27.4
CANCER/ONCOLOGY	33	0	0	2	0	0	0	0	-100.0	**	-100.0
CARDIOLOGY	27	3	0	3	1	2	17	5	-7.4	-70.6	-21.4
DENTISTRY	386	500	402	427	448	510	446	442	2.4	-.9	2.0
ENDOCRINOLOGY	3	1	3	5	3	0	0	0	-100.0	**	-100.0
GASTROENTEROLOGY	8	4	0	0	0	0	0	1	-100.0	**	-25.7
HEMATOLOGY	1	0	1	17	14	10	8	3	41.4	-62.5	17.0
NEUROLOGY	103	156	143	131	134	124	145	136	5.9	-6.2	4.1
NURSING	337	467	1,208	3,012	3,054	3,304	3,354	4,262	46.7	27.1	43.7
OBSTETRICS/GYNECOLOGY	7	8	17	10	9	15	5	11	-5.5	120.0	6.7
OPHTHALMOLOGY	21	19	6	3	1	2	5	9	-21.3	80.0	-11.4
OTORHINOLARYNGOLOGY	25	14	16	26	15	2	6	4	-21.2	-33.3	-23.0
PEDIATRICS	29	22	16	22	23	25	32	29	1.7	-9.4	.0
PHARMACEUTICAL SCIENCES	563	761	725	888	919	877	820	882	6.5	7.6	6.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,139	1,021	1,245	1,360	1,950	2,120	2,528	2,628	14.2	4.0	12.7
PSYCHIATRY	121	119	95	81	67	55	3	34	-46.0	1033.3	-16.6
PULMONARY DISEASE	23	2	0	0	1	0	8	2	-16.1	-75.0	-29.5
RADIOLOGY	113	114	105	96	64	63	67	98	-8.3	46.3	-2.0
SPEECH PATHOLOGY/AUDIOLOGY	866	1,126	959	964	1,047	1,063	1,193	1,138	5.5	-4.6	4.0
SURGERY	12	21	34	33	21	14	20	40	8.9	100.0	18.8
VETERINARY SCIENCES	37	47	52	59	58	59	51	48	5.5	-5.9	3.8
CLINICAL MEDICINE, N.E.C.	144	31	29	18	35	44	74	63	-10.5	-14.9	-11.1
HEALTH RELATED, N.E.C.	735	557	698	1,082	1,223	1,417	1,854	1,854	16.7	.0	14.1
PSYCHOLOGY	9,100	9,862	11,112	11,285	11,687	11,785	12,611	12,501	5.6	-.9	4.6
SOCIAL SCIENCES	19,364	23,287	23,409	23,937	24,100	26,109	27,383	27,026	5.9	-1.3	4.9
AGRICULTURAL ECONOMICS	103	89	80	79	85	100	127	102	3.6	-19.7	-.1
ANTHROPOLOGY	1,745	1,895	1,693	1,733	1,620	1,567	1,668	1,672	-.7	.2	-.6
ECONOMICS (EXCEPT AGRICULTURAL)	3,649	3,824	3,986	4,162	4,054	4,258	4,660	4,847	4.2	4.0	4.1
GEOGRAPHY	295	326	284	265	281	254	286	274	-.5	-4.2	-1.0
HISTORY AND PHILOSOPHY OF SCIENCE	135	153	158	137	128	117	115	107	-2.6	-7.0	-3.3
LINGUISTICS	592	878	934	756	694	1,169	1,077	1,066	10.5	-1.0	8.8
POLITICAL SCIENCE	6,289	8,788	9,009	8,987	9,691	11,020	11,339	11,067	10.3	-2.4	8.4
SOCIOLOGY	2,578	2,618	2,707	2,566	2,122	2,233	2,326	2,325	-1.7	*	-1.5
SOCIOLOGY/ANTHROPOLOGY	409	391	341	373	351	367	358	390	-2.2	8.9	-.7
SOCIAL SCIENCES, N.E.C.	3,569	4,325	4,217	4,879	5,074	5,024	5,427	5,176	7.2	-4.6	5.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-4. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1974-81

DIVISION AND STATE	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL INSTITUTIONS	265,289	293,754	298,160	306,570	309,841	320,595	333,899	340,203	3.9	1.9	3.6
NEW ENGLAND	20,426	21,004	22,078	22,209	22,917	23,970	25,633	26,256	3.9	2.4	3.7
CONNECTICUT	3,278	3,361	3,686	3,418	3,474	3,626	3,902	4,053	2.9	3.9	3.1
MAINE	431	446	512	469	487	475	467	395	1.3	-15.4	-1.2
MASSACHUSETTS	13,656	14,253	15,031	15,444	16,087	16,904	18,285	18,771	5.0	2.7	4.6
NEW HAMPSHIRE	754	652	676	723	666	701	752	733	*	-2.5	-.4
RHODE ISLAND	1,711	1,815	1,688	1,675	1,753	1,758	1,700	1,739	-.1	2.3	.2
VERMONT	596	477	485	480	450	506	527	565	-2.0	7.2	-.8
MIDDLE ATLANTIC	48,634	53,881	52,268	54,373	54,340	56,764	61,005	64,784	3.8	6.2	4.2
NEW JERSEY	6,900	7,804	7,186	7,298	8,795	8,851	9,182	9,332	4.9	1.6	4.4
NEW YORK	29,672	33,139	31,159	33,111	31,868	33,766	36,071	38,526	3.3	6.8	3.8
PENNSYLVANIA	12,062	12,938	13,923	13,964	13,677	14,147	15,752	16,926	4.5	7.5	5.0
EAST NORTH CENTRAL	52,884	55,777	55,917	57,075	57,016	58,440	60,007	59,666	2.1	-.6	1.7
ILLINOIS	13,311	13,869	13,744	14,650	14,916	15,499	16,122	16,086	3.2	-.2	2.7
INDIANA	6,628	6,997	7,284	7,253	7,113	7,101	7,345	7,694	1.7	4.8	2.2
MICHIGAN	12,639	12,483	12,209	12,581	12,272	13,005	12,744	12,135	.1	-4.8	-.6
OHIO	12,816	13,953	14,633	14,802	15,125	15,268	15,773	15,873	3.5	.6	3.1
WISCONSIN	7,490	8,475	8,047	7,789	7,590	7,567	8,023	7,878	1.2	-1.8	.7
WEST NORTH CENTRAL	19,452	21,300	21,993	22,536	22,793	22,933	23,723	23,555	3.4	-.7	2.8
IOWA	3,579	3,653	3,982	4,006	4,268	4,468	4,541	4,385	4.0	-3.4	2.9
KANSAS	3,309	3,693	3,895	4,178	4,400	4,272	4,356	4,234	4.7	-2.8	3.6
MINNESOTA	4,650	5,247	4,973	4,814	4,814	4,993	5,097	5,209	1.5	2.2	1.6
MISSOURI	5,303	5,944	6,091	6,030	5,742	5,699	5,983	5,815	2.0	-2.8	1.3
NEBRASKA	1,286	1,470	1,730	2,112	2,073	2,111	2,138	2,327	8.8	8.8	8.8
NORTH DAKOTA	693	742	809	836	858	776	907	913	4.6	.7	4.0
SOUTH DAKOTA	632	551	513	560	638	614	701	672	1.7	-4.1	.9
SOUTH ATLANTIC	36,290	40,564	41,981	44,006	45,528	47,568	49,519	51,128	5.3	3.2	5.0
DELAWARE	863	908	902	884	884	1,031	1,084	1,138	3.9	5.0	4.0
DISTRICT OF COLUMBIA	6,160	7,314	7,600	9,050	8,714	9,059	8,830	9,652	6.2	9.3	6.6
FLORIDA	6,033	7,013	7,397	7,198	7,974	8,808	9,623	10,351	8.1	7.6	8.0
GEORGIA	4,452	4,816	4,832	4,852	5,087	5,300	5,672	5,659	4.1	-.2	3.5
MARYLAND	5,727	5,557	5,524	5,675	5,594	5,596	5,185	5,431	-1.6	4.7	-.8
NORTH CAROLINA	5,403	5,739	5,764	5,886	6,329	6,651	6,725	6,661	3.7	-1.0	3.0
SOUTH CAROLINA	1,942	2,539	2,720	2,833	2,765	2,780	2,760	2,814	6.0	2.0	5.4
VIRGINIA	4,328	5,037	5,389	5,686	5,875	6,107	6,931	7,015	8.2	1.2	7.1
WEST VIRGINIA	1,382	1,641	1,853	1,942	2,306	2,236	2,709	2,407	11.9	-11.1	8.2
EAST SOUTH CENTRAL	9,796	11,248	12,208	12,796	13,024	13,136	13,181	12,781	5.1	-3.0	3.9
ALABAMA	1,979	2,328	2,810	3,182	3,362	3,500	3,368	3,411	9.3	1.3	8.1
KENTUCKY	1,966	2,254	2,386	2,475	2,454	2,565	2,571	2,709	4.6	5.4	4.7
MISSISSIPPI	1,343	1,765	1,824	1,858	1,970	1,895	1,893	1,830	5.9	-3.3	4.5
TENNESSEE	4,508	4,901	5,188	5,281	5,238	5,176	5,349	4,831	2.9	-9.7	1.0
WEST SOUTH CENTRAL	21,942	23,624	24,555	26,434	26,813	27,175	28,238	28,399	4.3	.6	3.8
ARKANSAS	826	857	948	1,044	1,056	1,065	1,060	1,164	4.2	9.8	5.0
LOUISIANA	3,071	2,798	2,883	3,100	3,484	3,518	3,596	3,862	2.7	7.4	3.3
OKLAHOMA	3,676	3,455	3,344	3,726	3,757	3,715	3,855	3,474	-.8	-9.9	-.8
TEXAS	14,369	16,514	17,380	18,564	18,516	18,877	19,727	19,899	5.4	.9	4.8
MOUNTAIN	17,158	20,396	19,941	19,827	20,077	20,496	21,102	21,547	3.5	2.1	3.3
ARIZONA	4,259	4,791	4,707	4,729	4,752	5,027	5,228	5,593	3.5	7.0	4.0
COLORADO	5,852	7,684	7,124	6,821	6,608	6,883	6,881	6,885	2.7	.1	2.3
IDAHO	755	841	975	1,192	1,191	951	968	960	4.2	-.8	3.5
MONTANA	689	756	774	763	772	755	830	805	3.2	-3.0	2.2
NEVADA	421	455	537	469	435	477	450	541	1.1	20.2	3.6
NEW MEXICO	1,569	1,970	1,915	1,809	2,059	2,086	2,203	2,296	5.8	4.2	5.6
UTAH	3,000	3,218	3,214	3,369	3,582	3,666	3,882	3,737	4.4	-3.7	3.2
WYOMING	613	681	695	675	678	651	660	730	1.2	10.6	2.5
PACIFIC	37,545	44,507	45,805	45,708	45,785	48,572	49,538	50,100	4.7	1.1	4.2
ALASKA	209	173	208	228	251	270	272	317	4.5	16.5	6.1
CALIFORNIA	28,947	35,412	35,807	35,019	34,935	37,545	37,918	38,980	4.6	2.8	4.3
HAWAII	1,388	1,484	1,496	1,543	1,501	1,453	2,004	1,967	6.3	-1.8	5.1
OREGON	2,447	2,852	2,995	3,135	3,262	3,299	3,216	3,141	4.7	-2.3	3.6
WASHINGTON	4,554	4,586	5,299	5,783	5,836	6,005	6,128	5,695	5.1	-7.1	3.2
OUTLYING AREAS	1,162	1,453	1,414	1,606	1,548	1,541	1,953	1,987	9.0	1.7	8.0

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-5. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-81

AREA AND RACIAL/ETHNIC BACKGROUND	FULL TIME			PART TIME		
	NUMBER		PERCENT CHANGE, 1980-81	NUMBER		PERCENT CHANGE, 1980-81
	1980	1981		1980	1981	
TOTAL, ALL AREAS:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	230,692	234,529	1.7	103,207	105,674	2.4
BLACK, NON-HISPANIC	5,597	5,351	-4.4	3,749	3,492	-6.9
AMERICAN INDIAN/ALASKAN NATIVE	581	470	-19.1	193	173	-10.4
ASIAN/PACIFIC ISLANDER	5,079	4,568	-10.1	2,247	2,254	.3
HISPANIC	4,563	4,181	-8.4	1,930	2,191	13.5
WHITE, NON-HISPANIC	140,845	132,101	-6.2	63,755	61,569	-3.4
FOREIGN, OTHER, OR UNKNOWN	74,027	87,858	18.7	31,333	35,995	14.9
ENGINEERING:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	42,481	45,366	6.8	29,816	31,620	6.1
BLACK, NON-HISPANIC	443	406	-8.4	459	478	4.1
AMERICAN INDIAN/ALASKAN NATIVE	26	67	157.7	50	44	-12.0
ASIAN/PACIFIC ISLANDER	1,494	1,058	-29.2	1,031	942	-8.6
HISPANIC	566	470	-17.0	461	417	-9.5
WHITE, NON-HISPANIC	18,752	18,096	-3.5	18,450	18,709	1.4
FOREIGN, OTHER, OR UNKNOWN	21,200	25,269	19.2	9,365	11,030	17.8
PHYSICAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	22,281	22,634	1.6	3,134	3,174	1.3
BLACK, NON-HISPANIC	262	271	3.4	70	71	1.4
AMERICAN INDIAN/ALASKAN NATIVE	13	15	15.4	1	1	.0
ASIAN/PACIFIC ISLANDER	495	466	-5.9	81	113	39.5
HISPANIC	291	319	9.6	49	40	-18.4
WHITE, NON-HISPANIC	13,611	13,114	-3.7	1,919	1,897	-1.1
FOREIGN, OTHER, OR UNKNOWN	7,609	8,449	11.0	1,014	1,052	3.7
ENVIRONMENTAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	9,943	10,247	3.1	2,310	2,396	3.7
BLACK, NON-HISPANIC	50	54	8.0	19	19	.0
AMERICAN INDIAN/ALASKAN NATIVE	36	10	-72.2	0	5	**
ASIAN/PACIFIC ISLANDER	126	91	-27.8	18	15	-16.7
HISPANIC	108	124	14.8	19	20	5.3
WHITE, NON-HISPANIC	6,893	6,637	-3.7	1,582	1,639	3.6
FOREIGN, OTHER, OR UNKNOWN	2,730	3,331	22.0	672	698	3.9
MATHEMATICAL/COMPUTER SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	15,253	16,124	5.7	9,728	10,936	12.4
BLACK, NON-HISPANIC	144	179	24.3	193	231	19.7
AMERICAN INDIAN/ALASKAN NATIVE	31	6	-80.6	15	3	-80.0
ASIAN/PACIFIC ISLANDER	339	428	26.3	348	392	12.6
HISPANIC	159	195	22.6	69	81	17.4
WHITE, NON-HISPANIC	7,364	7,722	4.9	5,581	5,788	3.7
FOREIGN, OTHER, OR UNKNOWN	7,216	7,594	5.2	3,522	4,441	26.1
AGRICULTURAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	9,642	9,623	-.2	1,996	1,709	-14.4
BLACK, NON-HISPANIC	85	87	2.4	11	11	.0
AMERICAN INDIAN/ALASKAN NATIVE	18	7	-61.1	0	3	**
ASIAN/PACIFIC ISLANDER	125	97	-22.4	19	15	-21.1
HISPANIC	217	132	-39.2	61	32	-47.5
WHITE, NON-HISPANIC	6,159	6,057	-1.7	1,307	1,249	-4.4
FOREIGN, OTHER, OR UNKNOWN	3,038	3,243	6.7	598	399	-33.3
BIOLOGICAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	35,270	34,854	-1.2	6,789	6,438	-5.2
BLACK, NON-HISPANIC	545	500	-8.3	157	159	1.3
AMERICAN INDIAN/ALASKAN NATIVE	47	29	-38.3	5	3	-40.0
ASIAN/PACIFIC ISLANDER	872	752	-13.8	140	113	-19.3
HISPANIC	574	459	-20.0	93	86	-7.5
WHITE, NON-HISPANIC	25,561	23,810	-6.9	4,597	4,165	-9.4
FOREIGN, OTHER, OR UNKNOWN	7,671	9,304	21.3	1,797	1,912	6.4
HEALTH SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	22,928	23,040	.5	14,227	15,542	9.2
BLACK, NON-HISPANIC	716	676	-5.6	595	525	-11.8
AMERICAN INDIAN/ALASKAN NATIVE	97	85	-12.4	31	25	-19.4
ASIAN/PACIFIC ISLANDER	552	467	-15.4	224	188	-16.1
HISPANIC	577	331	-42.6	213	196	-8.0
WHITE, NON-HISPANIC	16,455	14,897	-9.5	10,017	9,918	-1.0
FOREIGN, OTHER, OR UNKNOWN	4,531	6,584	45.3	3,147	4,690	49.0
PSYCHOLOGY:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	21,574	21,470	-.5	7,796	7,487	-4.0
BLACK, NON-HISPANIC	830	784	-5.5	193	248	28.5
AMERICAN INDIAN/ALASKAN NATIVE	144	33	-77.1	37	28	-24.3
ASIAN/PACIFIC ISLANDER	250	291	16.4	41	43	4.9
HISPANIC	851	875	2.8	216	191	-11.6
WHITE, NON-HISPANIC	14,764	12,940	-12.4	4,210	3,938	-6.5
FOREIGN, OTHER, OR UNKNOWN	4,735	6,547	38.3	3,099	3,039	-1.9
SOCIAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	51,320	51,171	-.3	27,411	26,372	-3.8
BLACK, NON-HISPANIC	2,522	2,394	-5.1	2,052	1,750	-14.7
AMERICAN INDIAN/ALASKAN NATIVE	169	218	29.0	54	61	13.0
ASIAN/PACIFIC ISLANDER	826	918	11.1	345	433	25.5
HISPANIC	1,220	1,276	4.6	749	1,128	50.6
WHITE, NON-HISPANIC	31,286	28,828	-7.9	16,092	14,266	-11.3
FOREIGN, OTHER, OR UNKNOWN	15,297	17,537	14.6	8,119	8,734	7.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-6. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	195,455	210,321	214,090	217,454	216,613	223,414	230,692	234,529	2.8	1.7	2.6
ENGINEERING	33,681	37,189	36,583	37,185	37,539	39,925	42,481	45,366	3.9	6.8	4.3
AEROSPACE	1,245	1,225	1,153	1,178	1,135	1,151	1,324	1,446	1.0	9.2	2.2
AGRICULTURAL	434	512	538	625	623	652	636	677	6.6	6.4	6.6
BIOMEDICAL	694	785	746	710	737	820	783	848	2.0	8.3	2.9
CHEMICAL	3,335	3,608	3,771	3,978	4,039	4,308	4,578	5,083	5.4	11.0	6.2
CIVIL	5,939	6,669	6,184	6,344	6,486	6,586	6,829	7,093	2.4	3.9	2.6
ELECTRICAL	7,736	8,186	8,063	8,336	8,334	8,851	9,712	10,145	3.9	4.5	3.9
ENGINEERING SCIENCE	1,109	1,110	1,140	1,125	1,170	1,098	1,169	1,216	.9	4.0	1.3
INDUSTRIAL	3,104	4,043	3,607	3,424	3,325	3,844	3,753	3,737	3.2	-.4	2.7
MECHANICAL	4,697	4,854	4,922	4,836	4,927	5,423	5,817	6,383	3.6	9.7	4.5
METALLURGICAL/MATERIALS	1,637	1,769	1,840	1,923	1,941	2,105	2,225	2,422	5.2	8.9	5.8
MINING	327	406	496	480	441	394	389	453	2.9	16.5	4.8
NUCLEAR	1,047	1,255	1,222	1,154	1,158	1,105	1,071	1,056	.4	-1.4	-.1
PETROLEUM	234	228	323	301	328	336	370	390	7.9	5.4	7.6
ENGINEERING, N.E.C.	2,143	2,539	2,578	2,771	2,895	3,252	3,825	4,417	10.1	15.5	10.9
PHYSICAL SCIENCES	21,255	21,317	21,623	21,801	21,544	21,782	22,281	22,434	.8	1.6	.9
ASTRONOMY	652	659	621	599	581	600	593	565	-1.6	-4.7	-2.0
CHEMISTRY	11,752	12,014	12,389	12,577	12,680	12,842	13,081	13,170	1.8	.7	1.6
PHYSICS	8,759	8,549	8,541	8,548	8,221	8,288	8,541	8,840	-.4	3.5	.1
PHYSICAL SCIENCES, N.E.C.	92	95	72	77	62	52	66	59	-5.4	-10.6	-6.1
ENVIRONMENTAL SCIENCES	8,335	8,863	9,356	9,623	9,636	9,824	9,943	10,247	3.0	3.1	3.0
ATMOSPHERIC SCIENCES	798	832	822	807	786	776	777	766	-.4	-1.4	-.6
GEOSCIENCES	5,230	5,580	5,946	6,117	6,193	6,396	6,614	6,761	4.0	2.2	3.7
OCEANOGRAPHY	1,464	1,414	1,468	1,531	1,512	1,508	1,555	1,604	1.0	3.2	1.3
ENVIRONMENTAL SCIENCES, N.E.C.	843	1,037	1,120	1,168	1,145	1,144	997	1,116	2.8	11.9	4.1
MATHEMATICAL/COMPUTER SCIENCES	13,739	14,125	14,525	13,975	13,690	14,177	15,253	16,124	1.8	5.7	2.3
COMPUTER SCIENCE	3,736	4,086	4,368	4,291	4,503	5,160	6,007	6,589	8.2	9.7	8.4
MATHEMATICS AND APPLIED MATHEMATICS	8,757	8,619	8,683	8,218	7,796	7,611	7,741	8,010	-2.0	3.5	-1.3
STATISTICS	1,246	1,420	1,474	1,466	1,391	1,406	1,505	1,525	3.2	1.3	2.9
LIFE SCIENCES	55,007	59,612	61,993	64,446	65,325	66,582	67,840	67,517	3.6	-.5	3.0
AGRICULTURAL SCIENCES	7,606	8,491	9,030	9,289	9,244	9,370	9,642	9,623	4.0	-.2	3.4
BIOLOGICAL SCIENCES	32,180	34,555	35,243	35,816	35,567	35,351	35,210	34,854	1.5	-1.2	1.1
ANATOMY	938	983	1,029	1,038	1,016	1,020	984	958	.8	-2.6	.3
BIOCHEMISTRY	3,469	3,389	3,453	3,540	3,631	3,553	3,591	3,600	.6	.3	.5
BIOLOGY	7,567	8,843	9,071	8,898	8,449	8,339	8,153	7,784	1.3	-4.5	.4
BIOMETRY/EPIDEMIOLOGY	593	767	763	899	981	971	1,049	1,009	10.0	-3.8	7.9
BIOPHYSICS	598	633	599	576	548	533	506	487	-2.7	-3.8	-2.9
BOTANY	2,992	3,032	3,274	3,410	3,322	3,220	3,154	2,979	.9	-5.5	-.1
CELL BIOLOGY	538	615	565	623	654	690	780	854	6.4	9.5	6.8
ECOLOGY	592	728	789	927	970	819	937	917	8.0	-2.1	6.5
ENTOMOLOGY/PARASITOLOGY	1,192	1,378	1,412	1,379	1,476	1,455	1,516	1,456	4.1	-4.0	2.9
GENETICS	736	754	761	881	851	812	821	811	1.8	-1.2	1.4
MICROBIOLOGY	3,340	3,458	3,500	3,557	3,402	3,364	3,414	3,341	.4	-2.1	*
NUTRITION	2,276	2,313	2,476	2,734	2,811	2,923	2,882	3,064	4.0	6.3	4.3
PATHOLOGY	865	927	971	970	1,025	1,067	1,015	998	2.7	-1.7	2.1
PHARMACOLOGY	1,296	1,488	1,574	1,653	1,743	1,837	1,872	1,890	6.3	1.0	5.5
PHYSIOLOGY	1,899	2,021	1,937	1,865	1,847	1,849	1,815	1,891	-.8	4.2	-.1
ZOOLOGY	3,054	3,031	2,832	2,589	2,530	2,404	2,254	2,247	-4.9	-.3	-4.3
BIOSCIENCES, N.E.C.	235	195	237	277	311	495	527	568	14.4	7.8	13.4
HEALTH SCIENCES	15,221	16,566	17,720	19,341	20,514	21,861	22,928	23,040	7.1	.5	6.1
ANESTHESIOLOGY	59	55	5	3	7	18	13	16	-22.3	23.1	-17.0
CANCER/ONCOLOGY	84	55	42	51	49	45	44	44	-10.2	.0	-8.8
CARDIOLOGY	43	22	0	3	3	3	17	5	-14.3	-70.6	-26.5
DENTISTRY	864	1,036	969	998	1,014	1,153	1,094	1,017	4.0	-7.0	2.4
ENDOCRINOLOGY	28	42	33	31	33	44	48	46	9.4	-4.2	7.3
GASTROENTEROLOGY	46	11	8	8	5	0	0	3	-100.0	**	-32.3
HEMATOLOGY	22	3	3	7	9	14	8	9	-15.5	12.5	-12.0
NEUROLOGY	255	327	303	314	343	344	347	316	5.3	-8.9	3.1
NURSING	2,348	2,776	3,831	5,256	5,597	6,141	6,240	6,927	17.7	11.0	16.7
OBSTETRICS/GYNECOLOGY	57	51	52	25	23	33	5	10	-33.3	100.0	-22.0
OPHTHALMOLOGY	41	25	8	9	2	5	15	19	-15.4	26.7	-10.4
OTORHINOLARYNGOLOGY	66	50	64	56	45	24	18	15	-19.5	-16.7	-19.1
PEDIATRICS	191	156	143	112	94	88	109	119	-8.9	9.2	-6.5
PHARMACEUTICAL SCIENCES	1,348	1,480	1,422	1,580	1,560	1,607	1,645	1,677	3.4	1.9	3.2
PREVENTIVE MEDICINE COMMUNITY HEALTH	2,873	3,014	3,247	3,077	3,819	4,270	4,485	4,404	7.7	-1.8	6.3
PSYCHIATRY	172	122	114	127	117	120	61	57	-15.9	-6.6	-14.6
PULMONARY DISEASE	47	7	0	3	10	1	15	9	-17.3	-40.0	-21.0
RADIOLOGY	280	320	267	266	212	217	230	235	-3.2	2.2	-2.5
SPEECH PATHOLOGY/AUDIOLOGY	3,890	4,639	4,725	4,644	4,678	4,459	4,785	4,511	3.5	-5.7	2.1
SURGERY	105	113	105	81	75	50	64	69	-7.9	7.8	-5.8
VETERINARY SCIENCES	464	498	555	624	578	684	669	663	6.3	-.9	5.2
CLINICAL MEDICINE, N.E.C.	462	245	189	228	179	227	273	234	-8.4	-14.3	-9.3
HEALTH RELATED, N.E.C.	1,476	1,519	1,635	1,838	2,062	2,314	2,743	2,635	10.9	-3.9	8.6
PSYCHOLOGY	18,889	19,696	21,431	21,225	20,648	20,695	21,574	21,470	2.2	-.5	1.8
SOCIAL SCIENCES	44,549	49,519	48,579	49,199	48,231	50,429	51,320	51,171	2.4	-.3	2.0
AGRICULTURAL ECONOMICS	1,567	1,879	1,920	1,940	1,974	1,930	2,027	2,014	4.4	-.6	3.7
ANTHROPOLOGY	4,624	4,862	4,892	4,924	4,528	4,464	4,476	4,245	-.5	-5.2	-1.2
ECONOMICS (EXCEPT AGRICULTURAL)	7,074	7,913	7,698	7,946	8,068	8,022	8,862	9,020	3.8	1.8	3.5
GEOGRAPHY	2,029	2,180	2,246	2,116	2,080	1,923	2,096	2,101	.5	.2	.5
HISTORY AND PHILOSOPHY OF SCIENCE	247	259	270	257	241	234	241	217	-.4	-10.0	-1.8
LINGUISTICS	1,607	1,973	2,080	1,823	1,804	2,170	2,151	2,167	5.0	.7	4.4
POLITICAL SCIENCE	10,303	12,258	11,486	11,758	11,502	12,619	12,183	12,813	2.8	5.2	3.2
SOCIOLOGY	6,244	6,254	6,250	5,928	5,106	5,386	5,520	5,299	2.0	-4.0	-2.3
SOCIOLOGY/ANTHROPOLOGY	804	950	638	705	642	614	588	526	-5.1	-10.5	-5.9
SOCIAL SCIENCES, N.E.C.	10,050	10,991	11,099	11,802	12,286	13,067	13,176	12,769	4.6	-3.1	3.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-7. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	143,256	154,024	156,252	157,769	155,988	160,070	165,204	167,369	2.4	1.3	2.2
ENGINEERING	23,366	25,586	25,205	25,590	25,481	27,136	29,285	31,334	3.8	7.0	4.3
AEROSPACE	884	838	819	813	772	780	921	1,019	.7	10.6	2.1
AGRICULTURAL	399	477	506	589	583	615	598	633	7.0	5.9	6.8
BIOMEDICAL	357	401	402	387	389	428	430	488	3.1	13.5	4.6
CHEMICAL	2,376	2,551	2,581	2,741	2,755	2,965	3,199	3,512	5.1	9.8	5.7
CIVIL	4,385	4,730	4,545	4,688	4,793	4,814	5,010	5,165	2.2	3.1	2.4
ELECTRICAL	5,157	5,577	5,473	5,628	5,449	5,685	6,405	6,757	3.7	5.5	3.9
ENGINEERING SCIENCE	572	616	640	595	670	572	639	694	1.9	8.6	2.8
INDUSTRIAL	2,099	2,379	2,190	2,079	2,002	2,495	2,556	2,703	3.3	5.8	3.7
MECHANICAL	3,428	3,576	3,455	3,285	3,386	3,676	3,958	4,436	2.4	12.1	3.8
METALLURGICAL/MATERIALS	994	1,080	1,146	1,196	1,212	1,327	1,350	1,488	5.2	10.2	5.9
MINING	261	329	408	399	359	316	311	374	3.0	20.3	5.3
NUCLEAR	813	963	955	900	866	827	816	809	.1	-.9	-.1
PETROLEUM	116	139	194	183	200	187	224	231	11.6	3.1	10.3
ENGINEERING, N.E.C.	1,525	1,930	1,891	2,107	2,095	2,449	2,868	3,025	11.1	5.5	10.3
PHYSICAL SCIENCES	14,947	15,101	15,333	15,453	15,264	15,445	15,820	16,084	1.0	1.7	1.1
ASTRONOMY	439	437	399	381	374	385	390	362	-2.0	-7.2	-2.7
CHEMISTRY	8,563	8,753	9,070	9,192	9,257	9,379	9,623	9,688	2.0	.7	1.8
PHYSICS	5,867	5,829	5,792	5,803	5,571	5,629	5,753	5,987	-.3	4.1	.3
PHYSICAL SCIENCES, N.E.C.	78	82	72	77	62	52	54	47	-8.9	-13.0	-7.0
ENVIRONMENTAL SCIENCES	6,700	7,218	7,693	7,955	7,901	8,197	8,233	8,479	3.5	3.0	3.4
ATMOSPHERIC SCIENCES	730	768	767	755	741	730	737	685	*	-6.4	-.9
GEOSCIENCES	3,959	4,262	4,592	4,771	4,840	5,087	5,286	5,414	4.9	2.4	4.6
OCEANOGRAPHY	1,232	1,212	1,271	1,326	1,274	1,330	1,327	1,382	1.2	4.1	1.7
ENVIRONMENTAL SCIENCES, N.E.C.	779	976	1,063	1,103	1,046	1,050	888	998	2.2	12.4	3.6
MATHEMATICAL/COMPUTER SCIENCES	10,362	10,780	11,061	10,582	10,438	10,716	11,378	11,812	1.6	3.8	1.9
COMPUTER SCIENCE	2,960	3,275	3,557	3,410	3,604	4,013	4,607	4,855	7.7	5.4	7.3
MATHEMATICS AND APPLIED MATHEMATICS	6,406	6,353	6,272	5,949	5,663	5,517	5,516	5,670	-2.5	2.8	-1.7
STATISTICS	996	1,152	1,212	1,223	1,171	1,186	1,255	1,287	3.9	2.5	3.7
LIFE SCIENCES	43,626	47,484	49,366	51,029	51,229	51,773	52,692	52,287	3.2	-.8	2.6
AGRICULTURAL SCIENCES	7,392	8,251	8,787	9,040	8,983	9,069	9,358	9,344	4.0	-.1	3.4
BIOLOGICAL SCIENCES	24,429	26,214	26,608	27,049	26,689	26,411	26,419	26,107	1.3	-1.2	1.0
ANATOMY	612	666	706	704	678	677	620	607	.2	-2.1	-.1
BIOCHEMISTRY	2,421	2,401	2,468	2,515	2,527	2,448	2,493	2,491	.5	-.1	.4
BIOLOGY	5,014	5,904	6,061	5,972	5,676	5,599	5,552	5,332	1.7	-4.0	.9
BIOMETRY/EPIDEMIOLOGY	390	426	383	491	561	534	612	586	7.8	-4.2	6.0
BIOPHYSICS	410	411	369	349	344	329	309	297	-4.6	-3.9	-4.5
BOTANY	2,777	2,818	3,063	3,191	3,086	2,977	2,899	2,732	.7	-5.8	-.2
CELL BIOLOGY	295	343	350	397	408	433	467	481	8.0	3.0	7.2
ECOLOGY	533	668	723	869	910	767	887	862	8.9	-2.8	7.1
ENTOMOLOGY/PARASITOLOGY	1,123	1,305	1,349	1,322	1,407	1,391	1,461	1,398	4.5	-4.3	3.2
GENETICS	612	583	610	699	684	649	630	615	.5	-2.4	.1
MICROBIOLOGY	2,669	2,746	2,708	2,725	2,573	2,544	2,617	2,542	-.3	-2.9	-.7
NUTRITION	1,803	1,830	1,929	2,116	2,156	2,259	2,221	2,398	3.5	8.0	4.2
PATHOLOGY	554	598	590	608	653	681	637	620	2.4	-2.7	1.6
PHARMACOLOGY	890	1,059	1,086	1,107	1,158	1,274	1,260	1,292	6.0	2.5	5.5
PHYSIOLOGY	1,368	1,495	1,392	1,337	1,286	1,232	1,245	1,286	-1.6	3.3	-.9
ZOOLOGY	2,867	2,845	2,655	2,429	2,345	2,211	2,076	2,103	-5.2	1.3	-4.3
BIOSCIENCES, N.E.C.	91	116	166	218	237	406	433	465	29.7	7.4	26.2
HEALTH SCIENCES	11,805	13,019	13,951	14,940	15,557	16,293	16,915	16,836	6.2	-.5	5.2
ANESTHESIOLOGY	12	14	5	2	3	14	13	15	1.3	15.4	3.2
CANCER/ONCOLOGY	51	55	42	49	49	45	44	44	-2.4	.0	-2.1
CARDIOLOGY	20	20	0	2	2	1	0	0	-100.0	**	-100.0
DENTISTRY	502	621	645	692	676	694	703	671	5.8	-4.6	4.2
ENDOCRINOLOGY	25	41	32	31	30	44	48	46	11.5	-4.2	9.1
GASTROENTEROLOGY	38	11	8	8	5	0	0	3	-100.0	**	-30.4
HEMATOLOGY	21	3	3	1	3	10	7	6	-16.7	-14.3	-16.4
NEUROLOGY	157	171	167	190	210	220	207	180	4.7	-13.0	2.0
NURSING	2,154	2,489	3,092	3,802	4,132	4,410	4,504	4,874	13.1	8.2	12.6
OBSTETRICS/GYNECOLOGY	51	43	37	17	16	20	1	0	-48.1	-100.0	-100.0
OPHTHALMOLOGY	22	6	3	7	1	3	10	10	-12.3	.0	-10.7
OTORHINOLARYNGOLOGY	44	36	48	31	30	22	12	11	-19.5	-8.3	-18.0
PEDIATRICS	165	140	130	93	76	66	81	91	-11.2	12.3	-8.1
PHARMACEUTICAL SCIENCES	1,193	1,255	1,284	1,383	1,364	1,374	1,420	1,457	2.9	2.6	2.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,013	2,225	2,449	2,316	2,617	3,061	3,171	3,118	7.9	-1.7	6.5
PSYCHIATRY	67	29	26	59	63	78	58	57	-2.4	-1.7	-2.3
PULMONARY DISEASE	24	5	0	3	9	1	7	7	-18.6	.0	-16.1
RADIOLOGY	180	209	164	171	149	159	165	143	-1.4	-13.3	-3.2
SPEECH PATHOLOGY/AUDIOLOGY	3,265	3,858	4,014	4,004	4,032	3,706	3,932	3,679	3.1	-6.4	1.7
SURGERY	95	93	75	59	62	38	44	35	-12.0	-20.5	-13.3
VETERINARY SCIENCES	427	452	503	565	520	625	618	615	6.4	-.5	5.4
CLINICAL MEDICINE, N.E.C.	345	214	163	211	164	209	211	200	-7.9	-5.2	-7.5
HEALTH RELATED, N.E.C.	934	1,029	1,061	1,244	1,344	1,493	1,659	1,574	10.0	-5.1	7.7
PSYCHOLOGY	13,031	13,414	13,941	13,526	12,894	12,782	13,083	12,969	.1	-.9	-.1
SOCIAL SCIENCES	31,224	34,441	33,693	33,634	32,781	34,021	34,713	34,404	1.8	-.9	1.4
AGRICULTURAL ECONOMICS	1,464	1,790	1,840	1,861	1,889	1,830	1,900	1,914	4.4	.7	3.9
ANTHROPOLOGY	3,237	3,450	3,585	3,586	3,278	3,312	3,232	3,026	*	-6.4	-1.0
ECONOMICS (EXCEPT AGRICULTURAL)	4,581	5,261	5,081	5,127	5,132	5,088	5,590	5,755	3.4	3.0	3.3
GEOGRAPHY	1,788	1,917	1,996	1,889	1,838	1,727	1,853	1,858	.6	.3	.6
HISTORY AND PHILOSOPHY OF SCIENCE	140	127	135	135	132	131	139	122	-.1	-12.2	-1.9
LINGUISTICS	1,145	1,265	1,325	1,276	1,255	1,369	1,404	1,425	3.5	1.5	3.2
POLITICAL SCIENCE	6,117	7,125	6,565	6,516	6,218	6,779	6,707	7,047	1.5	5.1	2.0
SOCIOLOGY	4,431	4,414	4,363	4,176	3,687	3,855	3,927	3,676	-2.0	-6.4	-2.6
SOCIOLOGY/ANTHROPOLOGY	560	736	451	506	451	453	443	373	-3.8	-15.8	-5.6
SOCIAL SCIENCES, N.E.C.	7,761	8,356	8,352	8,562	8,901	9,477	9,518	9,208	3.5	-3.3	2.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-8. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	52,199	56,297	57,838	59,685	60,625	63,344	65,488	67,160	3.9	2.6	3.7
ENGINEERING	10,315	11,603	11,378	11,595	12,058	12,789	13,196	14,032	4.2	6.3	4.5
AEROSPACE	361	387	334	365	363	371	403	427	1.9	6.0	2.4
AGRICULTURAL	35	35	32	36	40	37	38	44	1.4	15.8	3.3
BIOMEDICAL	337	384	344	323	348	392	353	360	.8	2.0	.9
CHEMICAL	959	1,057	1,190	1,237	1,284	1,343	1,379	1,571	6.2	13.9	7.3
CIVIL	1,554	1,939	1,639	1,656	1,693	1,772	1,819	1,928	2.7	6.0	3.1
ELECTRICAL	2,579	2,609	2,590	2,708	2,885	3,166	3,307	3,388	4.2	2.4	4.0
ENGINEERING SCIENCE	537	494	500	530	550	526	530	522	-.2	-1.5	-.4
INDUSTRIAL	1,005	1,664	1,417	1,345	1,323	1,349	1,197	1,034	3.0	-13.6	.4
MECHANICAL	1,269	1,278	1,467	1,551	1,541	1,747	1,859	1,947	6.6	4.7	6.3
METALLURGICAL/MATERIALS	643	689	694	727	729	778	875	934	5.3	6.7	5.5
MINING	66	77	88	81	82	78	78	79	2.8	1.3	2.6
NUCLEAR	234	292	267	254	292	278	255	247	1.4	-3.1	.8
PETROLEUM	118	89	129	118	128	149	146	159	3.6	8.9	4.4
ENGINEERING, N.E.C.	618	609	687	664	800	803	957	1,392	7.6	45.5	12.3
PHYSICAL SCIENCES	6,308	6,216	6,290	6,348	6,280	6,337	6,461	6,550	.4	1.4	.5
ASTRONOMY	213	222	222	218	207	215	203	203	-.8	.0	-.7
CHEMISTRY	3,189	3,261	3,319	3,385	3,423	3,463	3,458	3,482	1.4	.7	1.3
PHYSICS	2,892	2,720	2,749	2,745	2,650	2,659	2,788	2,853	-.6	2.3	-.2
PHYSICAL SCIENCES, N.E.C.	14	13	0	0	0	0	12	12	-2.5	.0	-2.2
ENVIRONMENTAL SCIENCES	1,635	1,645	1,663	1,668	1,735	1,627	1,710	1,768	.8	3.4	1.1
ATMOSPHERIC SCIENCES	68	64	55	52	45	46	45	81	-6.6	80.0	2.5
GEOSCIENCES	1,271	1,318	1,354	1,346	1,353	1,309	1,328	1,347	.7	1.4	.8
OCEANOGRAPHY	232	202	197	205	238	178	228	222	-.3	-2.6	-.6
ENVIRONMENTAL SCIENCES, N.E.C.	64	61	57	65	99	94	109	118	9.3	8.3	9.1
MATHEMATICAL/COMPUTER SCIENCES	3,377	3,345	3,484	3,393	3,252	3,461	3,875	4,312	2.3	11.3	3.6
COMPUTER SCIENCE	776	811	811	881	899	1,147	1,400	1,734	10.3	23.9	12.2
MATHEMATICS AND APPLIED MATHEMATICS	2,351	2,266	2,411	2,269	2,133	2,094	2,225	2,340	-.9	5.2	-.1
STATISTICS	250	268	262	243	220	220	250	238	.0	-4.8	-.7
LIFE SCIENCES	11,381	12,128	12,647	13,417	14,096	14,809	15,148	15,230	4.9	.5	4.2
AGRICULTURAL SCIENCES	214	240	243	249	261	301	284	279	4.8	-1.8	3.9
BIOLOGICAL SCIENCES	7,751	8,341	8,635	8,767	8,878	8,940	8,851	8,747	2.2	-1.2	1.7
ANATOMY	326	317	323	334	338	343	364	351	1.9	-3.6	1.1
BIOCHEMISTRY	1,048	988	985	1,025	1,104	1,105	1,098	1,109	.8	1.0	.8
BIOLOGY	2,553	2,939	3,010	2,926	2,773	2,740	2,601	2,452	.3	-5.7	-.6
BIOMETRY/EPIDEMIOLOGY	203	341	380	408	420	437	437	423	13.6	-3.2	11.1
BIOPHYSICS	188	222	230	227	204	204	197	190	.8	-3.6	.2
BOTANY	215	214	211	219	236	243	255	247	2.9	-3.1	2.0
CELL BIOLOGY	243	272	215	226	246	257	313	373	4.3	19.2	6.3
ECOLOGY	59	60	66	58	60	52	50	55	-2.7	10.0	-1.0
ENTOMOLOGY/PARASITOLOGY	69	73	63	57	69	64	55	58	-3.7	5.5	-2.5
GENETICS	124	171	151	182	167	163	191	196	7.5	2.6	6.8
MICROBIOLOGY	671	712	792	832	829	820	797	799	2.9	.3	2.5
NUTRITION	473	483	547	618	655	664	661	666	5.7	.8	5.0
PATHOLOGY	311	329	381	362	372	386	378	378	3.3	.0	2.8
PHARMACOLOGY	406	429	488	546	585	563	612	598	7.1	-2.3	5.7
PHYSIOLOGY	531	526	545	528	561	617	570	605	1.2	6.1	1.9
ZOOLOGY	187	186	177	160	185	193	178	144	-.8	-19.1	-3.7
BIOSCIENCES, N.E.C.	144	79	71	59	74	89	94	103	-6.9	9.6	-4.7
HEALTH SCIENCES	3,416	3,547	3,769	4,401	4,957	5,568	6,013	6,204	9.9	3.2	8.9
ANESTHESIOLOGY	47	41	0	1	4	4	0	1	-100.0	**	-42.3
CANCER/ONCOLOGY	33	0	0	2	0	0	0	0	-100.0	**	-100.0
CARDIOLOGY	23	2	0	1	1	2	17	5	-4.9	-70.6	-19.6
DENTISTRY	362	415	324	306	338	459	391	346	1.3	-11.5	-.6
ENDOCRINOLOGY	3	1	1	0	3	0	0	0	-100.0	**	-100.0
GASTROENTEROLOGY	8	0	0	0	0	0	0	0	-100.0	**	-100.0
HEMATOLOGY	1	0	0	6	6	4	1	3	.0	200.0	17.0
NEUROLOGY	98	156	136	124	133	124	140	136	6.1	-2.9	4.8
NURSING	194	287	739	1,454	1,465	1,731	1,736	2,053	44.1	18.3	40.1
OBSTETRICS/GYNECOLOGY	6	8	15	8	7	13	4	10	-6.5	150.0	7.6
OPHTHALMOLOGY	19	19	5	2	1	2	5	9	-19.9	80.0	-10.1
OTORHINOLARYNGOLOGY	22	14	16	25	15	2	6	4	-19.5	-33.3	-21.6
PEDIATRICS	26	16	13	19	18	22	28	28	1.2	.0	1.1
PHARMACEUTICAL SCIENCES	155	225	138	197	196	233	225	220	6.4	-2.2	5.1
PREVENTIVE MEDICINE COMMUNITY HEALTH	860	789	798	761	1,202	1,209	1,314	1,286	7.3	-2.1	5.9
PSYCHIATRY	105	93	88	68	54	42	3	0	-44.7	-100.0	-100.0
PULMONARY DISEASE	23	2	0	0	1	0	8	2	-16.1	-75.0	-29.5
RADIOLOGY	100	111	103	95	63	58	65	92	-6.9	41.5	-1.2
SPEECH PATHOLOGY/AUDIOLOGY	625	781	711	640	646	753	853	832	5.3	-2.5	4.2
SURGERY	10	20	30	22	13	12	20	34	12.2	70.0	19.1
VETERINARY SCIENCES	37	46	52	59	58	59	51	48	5.5	-5.9	3.8
CLINICAL MEDICINE, N.E.C.	117	31	26	17	15	18	62	34	-10.0	-45.2	-16.2
HEALTH RELATED, N.E.C.	542	490	574	594	718	821	1,084	1,061	12.2	-2.1	10.1
PSYCHOLOGY	5,858	6,282	7,490	7,699	7,754	7,913	8,491	8,501	6.4	.1	5.5
SOCIAL SCIENCES	13,325	15,078	14,886	15,565	15,450	16,408	16,607	16,767	3.7	1.0	3.3
AGRICULTURAL ECONOMICS	103	89	80	79	85	100	127	100	3.6	-21.3	-.4
ANTHROPOLOGY	1,387	1,412	1,307	1,338	1,250	1,152	1,244	1,219	-1.8	-2.0	-1.8
ECONOMICS (EXCEPT AGRICULTURAL)	2,693	2,652	2,617	2,819	2,936	2,934	3,272	3,265	4.6	-.2	3.9
GEOGRAPHY	241	263	250	227	242	196	243	243	.1	.0	.1
HISTORY AND PHILOSOPHY OF SCIENCE	107	132	135	122	109	103	102	95	-.8	-6.9	-1.7
LINGUISTICS	462	708	755	547	549	801	747	742	8.3	-.7	7.0
POLITICAL SCIENCE	4,186	5,133	4,921	5,242	5,284	5,840	5,476	5,766	4.6	5.3	4.7
SOCIOLOGY	1,813	1,840	1,887	1,752	1,419	1,531	1,593	1,623	-2.1	1.9	-1.6
SOCIOLOGY/ANTHROPOLOGY	244	214	187	199	191	161	145	153	-8.3	5.5	-6.5
SOCIAL SCIENCES, N.E.C.	2,289	2,635	2,747	3,240	3,385	3,590	3,658	3,561	8.1	-2.7	6.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-9. — FIRST-YEAR FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	73,479	79,150	78,122	80,222	74,356	73,035	77,430	76,648	.9	-1.0	.6
ENGINEERING	14,694	16,503	15,863	15,912	14,669	14,754	15,982	16,591	1.4	3.8	1.7
AEROSPACE	428	475	412	413	408	415	524	563	3.4	7.4	4.0
AGRICULTURAL	189	229	234	260	219	202	218	228	2.4	4.6	2.7
BIOMEDICAL	280	266	282	245	263	248	230	261	-3.2	13.5	-1.0
CHEMICAL	1,276	1,438	1,577	1,684	1,494	1,480	1,524	1,709	3.0	12.1	4.3
CIVIL	3,149	3,328	3,102	3,173	2,764	2,608	2,824	2,817	-1.8	-.2	-1.6
ELECTRICAL	3,335	3,632	3,427	3,525	3,299	3,562	3,790	3,924	2.2	3.5	2.4
ENGINEERING SCIENCE	418	396	415	385	388	298	335	327	-3.6	-2.4	-3.4
INDUSTRIAL	1,455	2,090	1,771	1,728	1,538	1,408	1,448	1,297	-.1	-10.4	-1.6
MECHANICAL	1,948	2,137	2,137	2,104	1,954	2,119	2,339	2,502	3.1	7.0	3.6
METALLURGICAL/MATERIALS	509	560	550	580	574	657	703	610	5.5	-13.2	2.6
MINING	136	196	210	152	119	99	131	145	-.6	10.7	.9
NUCLEAR	464	557	411	382	370	284	335	331	-5.3	-1.2	-4.7
PETROLEUM	81	95	171	114	110	115	121	113	6.9	-6.6	4.9
ENGINEERING, N.E.C.	1,026	1,105	1,164	1,167	1,169	1,259	1,460	1,764	6.1	20.8	8.0
PHYSICAL SCIENCES	5,809	5,970	6,037	6,181	5,716	5,440	5,745	5,843	-.2	1.7	.1
ASTRONOMY	149	140	131	147	123	130	148	127	-.1	-14.2	-2.3
CHEMISTRY	3,331	3,565	3,681	3,740	3,512	3,272	3,394	3,407	.3	.4	.3
PHYSICS	2,287	2,235	2,204	2,272	2,058	2,023	2,188	2,283	-.7	4.3	•
PHYSICAL SCIENCES, N.E.C.	42	30	21	22	23	15	15	26	-15.8	73.3	-6.6
ENVIRONMENTAL SCIENCES	2,929	3,187	3,289	3,352	3,141	3,063	3,225	3,149	1.6	-2.4	1.0
ATMOSPHERIC SCIENCES	288	307	268	292	267	242	217	249	-4.6	14.7	-2.1
GEOSCIENCES	1,790	2,006	2,086	2,123	1,964	2,034	2,149	2,163	3.1	.7	2.7
OCEANOGRAPHY	425	379	397	407	406	407	408	383	-.7	-6.1	-1.5
ENVIRONMENTAL SCIENCES, N.E.C.	426	495	538	530	504	380	451	354	1.0	-21.5	-2.6
MATHEMATICAL/COMPUTER SCIENCES	5,038	5,412	5,185	5,259	4,826	4,798	5,518	5,718	1.5	3.6	1.8
COMPUTER SCIENCE	1,476	1,819	1,669	1,797	1,749	1,973	2,224	2,557	7.9	10.0	8.2
MATHEMATICS AND APPLIED MATHEMATICS	3,130	3,075	3,033	2,994	2,661	2,379	2,713	2,745	-2.4	1.2	-1.9
STATISTICS	432	518	483	468	416	446	481	416	1.8	-13.5	-.5
LIFE SCIENCES	22,090	23,319	23,600	24,345	22,840	22,059	23,003	21,854	.7	-5.0	-.2
AGRICULTURAL SCIENCES	3,090	3,554	3,567	3,525	3,051	2,872	2,977	2,793	-.6	-6.2	-1.4
BIOLOGICAL SCIENCES	10,593	11,310	11,035	10,884	9,964	9,311	9,359	8,987	-2.0	-4.0	-2.3
ANATOMY	294	293	287	274	234	221	217	220	-4.9	1.4	-4.1
BIOCHEMISTRY	960	955	917	903	854	805	784	865	-3.3	10.3	-1.5
BIOLOGY	2,645	3,167	3,180	3,033	2,501	2,453	2,339	2,085	-2.0	-10.9	-3.3
BIOMETRY/EPIDEMIOLOGY	236	319	307	324	377	377	378	344	8.2	-9.0	5.5
BIOPHYSICS	160	151	136	129	111	84	95	98	-8.3	3.2	-6.8
BOTANY	977	951	1,086	1,028	896	782	860	748	-2.1	-13.0	-3.7
CELL BIOLOGY	122	190	137	165	152	145	150	176	3.5	17.3	5.4
ECOLOGY	191	219	189	208	241	202	219	200	2.3	-8.7	.7
ENTOMOLOGY/PARASITOLOGY	323	488	413	403	385	361	373	338	2.4	-9.4	.7
GENETICS	202	221	217	250	213	171	204	199	.2	-2.5	-.2
MICROBIOLOGY	1,140	1,097	1,047	1,037	868	831	877	846	-4.3	-3.5	-4.2
NUTRITION	960	960	961	1,124	1,062	1,035	967	901	.1	-6.8	-.9
PATHOLOGY	304	305	313	297	307	282	277	267	-1.5	-3.6	-1.8
PHARMACOLOGY	430	455	448	427	418	423	446	454	.6	1.8	.8
PHYSIOLOGY	643	616	531	521	517	481	459	585	-5.5	27.5	-1.3
ZOOLOGY	949	870	809	686	728	538	572	527	-8.1	-7.9	-8.1
BIOSCIENCES, N.E.C.	57	53	57	75	100	120	142	134	16.4	-5.6	13.0
HEALTH SCIENCES	8,407	8,455	8,998	9,936	9,825	9,876	10,667	10,074	4.0	-5.6	2.6
ANESTHESIOLOGY	32	19	1	3	4	6	5	5	-26.6	.0	-23.3
CANCER/ONCOLOGY	34	15	11	13	13	6	6	0	-25.1	-100.0	-100.0
CARDIOLOGY	17	12	0	1	0	1	5	0	-18.5	-100.0	-100.0
DENTISTRY	383	436	417	415	441	432	447	386	2.6	-13.6	.1
ENDOCRINOLOGY	7	8	13	9	8	9	17	8	15.9	-52.9	1.9
GASTROENTEROLOGY	18	6	4	4	0	0	0	0	-100.0	••	-100.0
HEMATOLOGY	6	3	1	2	3	7	4	2	-6.5	-50.0	-14.5
NEUROLOGY	70	74	60	69	73	60	59	61	-2.8	3.4	-1.9
NURSING	1,596	1,594	2,362	3,154	3,012	3,299	3,423	3,416	13.6	-.2	11.5
OBSTETRICS/GYNECOLOGY	22	21	22	11	8	8	2	5	-32.9	150.0	-14.1
OPHTHALMOLOGY	17	6	2	1	1	2	2	5	-30.0	150.0	-16.0
OTORHINOLARYNGOLOGY	11	12	22	21	13	1	1	4	-32.9	300.0	-13.5
PEDIATRICS	82	74	100	67	55	58	56	10	-6.2	-82.1	-26.0
PHARMACEUTICAL SCIENCES	512	521	469	553	481	465	486	494	-.9	1.6	-.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,754	1,795	1,904	1,786	2,124	2,258	2,441	2,240	5.7	-8.2	3.6
PSYCHIATRY	58	43	40	30	26	22	18	5	-17.7	-72.2	-29.5
PULMONARY DISEASE	32	3	0	2	4	0	6	3	-29.3	-25.0	-28.7
RADIOLOGY	100	118	82	79	48	53	63	51	-7.4	-19.0	-9.2
SPEECH PATHOLOGY/AUDIOLOGY	2,520	2,558	2,353	2,387	2,126	1,885	2,076	1,994	-3.2	-3.9	-3.3
SURGERY	40	31	33	18	13	8	9	19	-22.0	111.1	-10.1
VETERINARY SCIENCES	164	181	228	224	186	222	199	173	3.3	-13.1	.8
CLINICAL MEDICINE, N.E.C.	186	102	78	117	72	77	85	69	-12.2	-18.8	-13.2
HEALTH RELATED, N.E.C.	746	823	796	970	1,114	997	1,259	1,124	9.1	-10.7	6.0
PSYCHOLOGY	5,872	5,733	5,957	6,041	5,543	5,456	5,698	5,553	-.5	-2.5	-.8
SOCIAL SCIENCES	17,047	19,026	18,191	19,132	17,621	17,465	18,259	17,940	1.2	-1.7	.7
AGRICULTURAL ECONOMICS	606	695	706	749	678	683	678	667	1.9	-1.6	1.4
ANTHROPOLOGY	1,368	1,276	1,335	1,326	1,141	1,110	966	928	-5.6	-3.9	-5.4
ECONOMICS (EXCEPT AGRICULTURAL)	2,716	3,040	2,886	2,950	2,858	2,582	2,840	2,912	.7	2.5	1.0
GEOGRAPHY	742	828	856	815	693	673	700	723	-1.0	3.3	-.4
HISTORY AND PHILOSOPHY OF SCIENCE	74	62	73	60	53	43	62	26	-2.9	-58.1	-13.9
LINGUISTICS	537	737	774	599	543	655	676	741	3.9	9.6	4.7
POLITICAL SCIENCE	4,176	5,018	4,574	5,076	4,372	4,978	5,042	4,904	3.2	-2.7	2.3
SOCIOLOGY	1,930	1,844	1,816	1,769	1,458	1,389	1,411	1,307	-5.1	-7.4	-5.4
SOCIOLOGY/ANTHROPOLOGY	338	406	260	275	239	233	216	167	-7.2	-22.7	-9.6
SOCIAL SCIENCES, N.E.C.	4,560	5,120	4,911	5,513	5,586	5,119	5,668	5,565	3.7	-1.8	2.9

• LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-10. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS BEYOND FIRST YEAR IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	121,976	131,171	135,968	137,232	142,257	150,379	153,262	157,881	3.9	3.0	3.8
ENGINEERING	18,987	20,686	20,720	21,273	22,870	25,171	26,499	28,775	5.7	8.6	6.1
AEROSPACE	817	750	741	765	727	736	800	883	-.3	10.4	1.1
AGRICULTURAL	245	283	304	365	404	450	418	449	9.3	7.4	9.0
BIOMEDICAL	414	519	464	465	474	572	553	587	4.9	6.1	5.1
CHEMICAL	2,059	2,170	2,194	2,294	2,545	2,828	3,054	3,374	6.8	10.5	7.3
CIVIL	2,790	3,341	3,082	3,471	3,722	3,918	4,005	4,276	6.2	6.8	6.3
ELECTRICAL	4,401	4,554	4,636	4,811	5,035	5,289	5,922	6,221	5.1	5.0	5.1
ENGINEERING SCIENCE	691	715	725	740	782	800	834	889	3.2	6.6	3.7
INDUSTRIAL	1,649	1,953	1,836	1,696	1,787	2,436	2,305	2,440	5.7	5.9	5.8
MECHANICAL	2,749	2,717	2,785	2,732	2,973	3,304	3,478	3,881	4.0	11.6	5.0
METALLURGICAL/MATERIALS	1,128	1,209	1,290	1,343	1,367	1,448	1,522	1,812	5.1	19.1	7.0
MINING	191	210	286	328	322	295	258	308	5.1	19.4	7.1
NUCLEAR	583	698	811	772	788	821	736	725	4.0	-1.5	3.2
PETROLEUM	153	133	152	187	218	221	249	277	8.5	11.2	8.8
ENGINEERING, N.E.C.	1,117	1,434	1,414	1,604	1,726	1,993	2,365	2,653	13.3	12.2	13.2
PHYSICAL SCIENCES	15,446	15,347	15,586	15,620	15,828	16,342	16,536	16,791	1.1	1.5	1.2
ASTRONOMY	503	519	490	452	458	470	445	438	-2.0	-1.6	-2.0
CHEMISTRY	8,421	8,449	8,708	8,837	9,168	9,570	9,687	9,763	2.4	.8	2.1
PHYSICS	6,472	6,314	6,337	6,276	6,163	6,265	6,353	6,557	-.3	3.2	.2
PHYSICAL SCIENCES, N.E.C.	50	65	51	55	39	37	51	33	.3	-35.3	-5.8
ENVIRONMENTAL SCIENCES	5,406	5,676	6,067	6,271	6,495	6,761	6,718	7,098	3.7	5.7	4.0
ATMOSPHERIC SCIENCES	510	525	554	515	519	534	560	517	1.6	-7.7	.2
GEOSCIENCES	3,440	3,574	3,860	3,994	4,229	4,362	4,465	4,598	4.4	3.0	4.2
OCEANOGRAPHY	1,039	1,035	1,071	1,124	1,106	1,101	1,147	1,221	1.7	6.5	2.3
ENVIRONMENTAL SCIENCES, N.E.C.	417	542	582	638	641	764	546	762	4.6	39.6	9.0
MATHEMATICAL/COMPUTER SCIENCES	8,701	8,713	9,340	8,716	8,864	9,379	9,735	10,406	1.9	6.9	2.6
COMPUTER SCIENCE	2,260	2,267	2,699	2,494	2,754	3,187	3,683	4,032	8.5	9.5	8.6
MATHEMATICS AND APPLIED MATHEMATICS	5,627	5,544	5,650	5,224	5,135	5,232	5,028	5,265	-1.9	4.7	-.9
STATISTICS	814	902	991	998	975	960	1,024	1,109	3.9	8.3	4.5
LIFE SCIENCES	32,917	36,293	38,393	40,101	42,485	44,523	44,837	45,663	5.3	1.8	4.8
AGRICULTURAL SCIENCES	4,516	4,937	5,463	5,764	6,193	6,498	6,665	6,830	6.7	2.5	6.1
BIOLOGICAL SCIENCES	21,587	23,245	24,208	24,932	25,603	26,040	25,911	25,867	3.1	-.2	2.6
ANATOMY	644	690	742	764	782	799	767	738	3.0	-3.8	2.0
BIOCHEMISTRY	2,509	2,434	2,536	2,637	2,777	2,7[illegible]	2,807	2,735	1.9	-2.6	1.2
BIOLOGY	4,922	5,676	5,891	5,865	5,948	5,886	5,814	5,699	2.8	-2.0	2.1
BIOMETRY/EPIDEMIOLOGY	357	448	456	575	604	594	671	665	11.1	-.9	9.3
BIOPHYSICS	438	482	463	447	437	449	411	389	-1.1	-5.4	-1.7
BOTANY	2,015	2,081	2,188	2,382	2,426	2,438	2,294	2,231	2.2	-2.7	1.5
CELL BIOLOGY	416	425	428	458	502	545	630	678	7.2	7.6	7.2
ECOLOGY	401	509	600	719	729	617	718	717	10.2	-.1	8.7
ENTOMOLOGY/PARASITOLOGY	869	890	999	976	1,091	1,094	1,143	1,118	4.7	-2.2	3.7
GENETICS	534	533	544	631	638	641	617	612	2.4	-.8	2.0
MICROBIOLOGY	2,200	2,361	2,453	2,520	2,534	2,533	2,537	2,495	2.4	-1.7	1.8
NUTRITION	1,316	1,353	1,515	1,610	1,749	1,888	1,915	2,163	6.5	13.0	7.4
PATHOLOGY	561	622	658	673	718	785	738	731	4.7	-.9	3.9
PHARMACOLOGY	866	1,033	1,126	1,226	1,325	1,414	1,426	1,436	8.7	.7	7.5
PHYSIOLOGY	1,256	1,405	1,406	1,344	1,330	1,368	1,356	1,306	1.3	-3.7	.6
ZOOLOGY	2,105	2,161	2,023	1,903	1,802	1,866	1,682	1,720	-3.7	2.3	-2.8
BIOSCIENCES, N.E.C.	178	142	180	202	211	375	385	434	13.7	12.7	13.6
HEALTH SCIENCES	6,814	8,111	8,722	9,405	10,689	11,985	12,261	12,966	10.3	5.7	9.6
ANESTHESIOLOGY	27	36	4	0	3	12	8	11	-18.4	37.5	-12.0
CANCER/ONCOLOGY	50	40	31	38	36	39	38	44	-4.5	15.8	-1.8
CARDIOLOGY	26	10	0	2	3	2	12	5	-12.1	-58.3	-21.0
DENTISTRY	481	600	552	583	573	721	647	631	5.1	-2.5	4.0
ENDOCRINOLOGY	21	34	20	22	25	35	31	38	6.7	22.6	8.8
GASTROENTEROLOGY	28	5	4	4	5	0	0	3	-100.0	**	-27.3
HEMATOLOGY	16	0	2	5	6	7	4	7	-20.6	75.0	-11.1
NEUROLOGY	185	253	243	245	270	284	288	255	7.7	-11.5	4.7
NURSING	752	1,182	1,469	2,102	2,585	2,842	2,817	3,511	24.6	24.6	24.6
OBSTETRICS/GYNECOLOGY	35	30	30	14	15	25	3	5	-33.6	66.7	-24.3
OPHTHALMOLOGY	24	19	6	8	1	3	13	14	-9.7	7.7	-7.4
OTORHINOLARYNGOLOGY	55	38	42	35	32	23	17	11	-17.8	-35.3	-20.5
PEDIATRICS	109	82	43	45	39	30	53	109	-11.3	105.7	.0
PHARMACEUTICAL SCIENCES	836	959	953	1,027	1,079	1,142	1,159	1,183	5.6	2.1	5.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,119	1,219	1,343	1,291	1,695	2,012	2,044	2,164	10.6	5.9	9.9
PSYCHIATRY	114	79	74	97	91	98	43	52	-15.0	20.9	-10.6
PULMONARY DISEASE	15	4	0	1	6	1	11	6	-5.0	-45.5	-12.3
RADIOLOGY	180	202	185	187	164	164	167	184	-1.2	10.2	.3
SPEECH PATHOLOGY/AUDIOLOGY	1,370	2,081	2,372	2,257	2,552	2,574	2,709	2,517	12.0	-7.1	9.1
SURGERY	65	82	72	63	62	42	55	50	-2.7	-9.1	-3.7
VETERINARY SCIENCES	300	317	327	400	397	452	470	490	7.8	4.3	7.3
CLINICAL MEDICINE, N.E.C.	276	143	111	111	107	197	188	165	-6.2	-12.2	-7.1
HEALTH RELATED, N.E.C.	730	696	839	868	948	1,317	1,484	1,511	12.6	1.8	11.0
PSYCHOLOGY	13,017	13,963	15,474	15,184	15,105	15,239	15,876	15,917	3.4	.3	2.9
SOCIAL SCIENCES	27,502	30,493	30,388	30,067	30,610	32,964	33,061	33,231	3.1	.5	2.7
AGRICULTURAL ECONOMICS	961	1,184	1,214	1,191	1,296	1,247	1,349	1,347	5.8	-.1	4.9
ANTHROPOLOGY	3,256	3,586	3,557	3,598	3,387	3,354	3,510	3,317	1.3	-5.5	.3
ECONOMICS (EXCEPT AGRICULTURAL)	4,358	4,873	4,812	4,996	5,210	5,440	6,022	6,108	5.5	1.4	4.9
GEOGRAPHY	1,287	1,352	1,390	1,301	1,387	1,250	1,396	1,378	1.4	-1.3	1.0
HISTORY AND PHILOSOPHY OF SCIENCE	173	197	197	197	188	191	179	191	.6	6.7	1.4
LINGUISTICS	1,070	1,236	1,306	1,224	1,261	1,515	1,475	1,426	5.5	-3.3	4.2
POLITICAL SCIENCE	6,127	7,240	6,912	6,682	7,130	7,641	7,141	7,909	2.6	10.8	3.7
SOCIOLOGY	4,314	4,410	4,434	4,159	3,648	3,997	4,109	3,992	-.8	-2.8	-1.1
SOCIOLOGY/ANTHROPOLOGY	466	544	378	430	403	381	372	359	-3.7	-3.5	-3.7
SOCIAL SCIENCES, N.E.C.	5,490	5,871	6,188	6,289	6,700	7,948	7,508	7,204	5.4	-4.0	4.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-11. -- MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	149,177	158,099	156,258	154,304	152,339	154,740	155,371	.6	0.4	.6
ENGINEERING	32,322	35,308	34,527	34,762	36,345	38,433	40,594	2.9	5.6	3.3
AEROSPACE	1,230	1,205	1,130	1,151	1,115	1,270	1,355	.5	9.8	1.8
AGRICULTURAL	428	502	521	598	624	606	634	6.0	4.6	5.8
BIOMEDICAL	659	739	691	642	709	653	699	-.2	7.0	.8
CHEMICAL	3,222	3,420	3,512	3,671	3,840	4,067	4,493	4.0	10.5	4.9
CIVIL	5,636	6,330	5,850	5,922	5,923	6,161	6,382	1.5	3.6	1.8
ELECTRICAL	7,515	7,958	7,768	7,959	8,401	9,163	9,449	3.4	3.1	3.3
ENGINEERING SCIENCE	1,055	1,041	1,060	1,056	1,015	1,064	1,103	.1	3.7	.6
INDUSTRIAL	2,867	3,565	3,206	3,012	3,251	3,084	3,025	1.2	-1.9	.8
MECHANICAL	4,616	4,742	4,803	4,699	5,168	5,503	6,028	3.0	9.5	3.9
METALLURGICAL/MATERIALS	1,567	1,678	1,735	1,785	1,893	1,996	2,141	4.1	7.3	4.6
MINING	312	387	465	450	358	351	395	2.0	12.5	3.4
NUCLEAR	1,009	1,208	1,173	1,108	1,028	997	982	-.2	-1.5	-.4
PETROLEUM	228	224	314	290	307	343	356	7.0	3.8	6.6
ENGINEERING, N.E.C.	1,978	2,309	2,299	2,419	2,713	3,175	3,512	8.2	10.6	8.5
PHYSICAL SCIENCES	18,721	18,637	18,707	18,750	18,455	18,750	18,790	*	.2	.1
ASTRONOMY	584	589	552	526	528	521	482	-1.9	-7.5	-2.7
CHEMISTRY	9,889	10,011	10,196	10,288	10,318	10,437	10,323	.9	-1.1	.6
PHYSICS	8,173	7,973	7,908	7,886	7,576	7,752	7,949	-.9	2.5	-.4
PHYSICAL SCIENCES, N.E.C.	75	64	51	50	33	40	36	-9.9	-10.0	-10.0
ENVIRONMENTAL SCIENCES	7,303	7,646	7,867	7,971	7,755	7,700	7,850	.9	1.9	1.0
ATMOSPHERIC SCIENCES	747	781	755	739	688	679	653	-1.6	-3.8	-1.9
GEOSCIENCES	4,589	4,777	4,988	5,093	5,061	5,130	5,204	1.9	1.4	1.8
OCEANOGRAPHY	1,274	1,231	1,210	1,236	1,167	1,175	1,180	-1.3	.4	-1.1
ENVIRONMENTAL SCIENCES, N.E.C.	693	857	914	903	839	716	813	.5	13.5	2.3
MATHEMATICAL/COMPUTER SCIENCES	11,215	11,413	11,634	11,180	11,285	11,883	12,305	1.0	3.6	1.3
COMPUTER SCIENCE	3,231	3,495	3,690	3,596	4,246	4,769	5,098	6.7	6.9	6.7
MATHEMATICS AND APPLIED MATHEMATICS	7,025	6,827	6,820	6,462	5,959	5,991	6,082	-2.6	1.5	-2.0
STATISTICS	959	1,091	1,124	1,122	1,080	1,123	1,125	2.7	.2	2.3
LIFE SCIENCES	37,605	39,868	39,396	39,104	37,609	37,413	36,562	-.1	-2.3	-.4
AGRICULTURAL SCIENCES	6,736	7,367	7,609	7,566	7,262	7,347	7,387	1.5	.5	1.3
BIOLOGICAL SCIENCES	23,032	24,528	24,312	24,042	22,701	22,277	21,696	-.6	-2.6	-.9
ANATOMY	700	695	710	696	644	614	614	-2.2	.0	-1.9
BIOCHEMISTRY	2,643	2,558	2,533	2,548	2,458	2,436	2,427	-1.4	-.4	-1.2
BIOLOGY	5,308	6,287	6,227	5,977	5,452	5,159	4,921	-.5	-4.6	-1.1
BIOMETRY/EPIDEMIOLOGY	387	444	404	511	510	545	574	5.9	5.3	5.8
BIOPHYSICS	507	518	489	461	431	393	354	-4.2	-9.9	-5.0
BOTANY	2,261	2,221	2,317	2,407	2,202	2,119	1,964	-1.1	-7.3	-2.0
CELL BIOLOGY	362	411	376	408	430	506	550	5.7	8.7	6.2
ECOLOGY	445	574	577	681	595	647	625	6.4	-3.4	5.0
ENTOMOLOGY/PARASITOLOGY	1,030	1,191	1,206	1,142	1,162	1,212	1,153	2.7	-4.9	1.6
GENETICS	476	459	439	507	446	450	439	-.9	-2.4	-1.1
MICROBIOLOGY	2,243	2,326	2,273	2,297	2,020	2,041	1,943	-1.6	-4.8	-2.0
NUTRITION	1,146	1,155	1,212	1,175	1,146	1,162	1,159	.2	-.3	.2
PATHOLOGY	614	659	640	623	694	655	627	1.1	-4.3	.3
PHARMACOLOGY	1,021	1,142	1,183	1,216	1,313	1,272	1,254	3.7	-1.4	3.0
PHYSIOLOGY	1,465	1,534	1,467	1,396	1,296	1,270	1,275	-2.4	.4	-2.0
ZOOLOGY	2,249	2,225	2,105	1,821	1,614	1,489	1,487	-6.6	-.1	-5.7
BIOSCIENCES, N.E.C.	175	129	154	176	288	307	330	9.8	7.5	9.5
HEALTH SCIENCES	7,837	7,973	7,475	7,496	7,646	7,789	7,479	-.1	-4.0	-.7
ANESTHESIOLOGY	53	34	3	2	7	2	4	-42.1	100.0	-30.9
CANCER/ONCOLOGY	67	41	33	40	35	34	44	-10.7	29.4	-5.8
CARDIOLOGY	40	17	0	2	3	16	5	-14.2	-68.8	-25.7
DENTISTRY	794	923	837	858	930	852	795	1.2	-6.7	*
ENDOCRINOLOGY	19	29	22	21	28	24	21	4.0	-12.5	1.4
GASTROENTEROLOGY	41	11	8	8	0	0	3	-100.0	**	-31.2
HEMATOLOGY	21	1	1	3	7	2	2	-32.4	.0	-28.5
NEUROLOGY	193	253	215	218	231	236	219	3.4	-7.2	1.8
NURSING	101	93	148	236	336	287	341	19.0	18.8	19.0
OBSTETRICS/GYNECOLOGY	31	37	38	16	24	4	4	-28.9	.0	-25.4
OPHTHALMOLOGY	37	22	6	5	3	8	15	-22.5	87.5	-12.1
OTORHINOLARYNGOLOGY	56	44	54	35	22	16	11	-18.8	-31.3	-20.7
PEDIATRICS	60	59	55	39	17	22	28	-15.4	27.3	-10.3
PHARMACEUTICAL SCIENCES	1,111	1,216	1,121	1,210	1,189	1,196	1,168	1.2	-2.3	.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,808	1,770	1,753	1,684	2,076	2,170	2,103	3.1	-3.1	2.2
PSYCHIATRY	140	76	65	75	53	23	28	-26.0	21.7	-20.5
PULMONARY DISEASE	43	7	0	3	0	13	5	-18.1	-61.5	-26.5
RADIOLOGY	232	262	210	213	169	182	186	-4.0	2.2	-3.1
SPEECH PATHOLOGY/AUDIOLOGY	1,327	1,499	1,376	1,229	879	861	745	-7.0	-13.5	-7.9
SURGERY	81	96	90	67	48	52	60	-7.1	15.4	-4.2
VETERINARY SCIENCES	381	396	425	472	485	438	431	2.4	-1.6	1.8
CLINICAL MEDICINE, N.E.C.	319	210	156	175	148	169	140	-10.0	-17.2	-11.1
HEALTH RELATED, N.E.C.	863	877	859	885	956	1,182	1,121	5.0	-5.2	3.5
PSYCHOLOGY	11,460	11,371	12,188	11,581	10,593	10,619	10,146	-1.3	-4.5	-1.7
SOCIAL SCIENCES	30,551	33,856	31,939	30,956	30,297	29,942	29,124	-.3	-2.7	-.7
AGRICULTURAL ECONOMICS	1,418	1,705	1,725	1,692	1,586	1,616	1,581	2.2	-2.2	1.6
ANTHROPOLOGY	2,624	2,718	2,557	2,492	2,201	2,146	1,943	-3.3	-9.5	-4.2
ECONOMICS (EXCEPT AGRICULTURAL)	6,008	6,755	6,412	6,478	6,413	6,941	7,053	2.4	1.6	2.3
GEOGRAPHY	1,587	1,678	1,718	1,554	1,363	1,501	1,443	-.9	-3.9	-1.3
HISTORY AND PHILOSOPHY OF SCIENCE	191	185	201	183	171	168	142	-2.1	-15.5	-4.1
LINGUISTICS	843	947	915	829	973	979	972	2.5	-.7	2.1
POLITICAL SCIENCE	8,194	9,646	8,842	8,697	8,797	8,307	8,592	.2	3.4	.7
SOCIOLOGY	3,866	3,722	3,611	3,308	2,903	2,824	2,670	-5.1	-5.5	-5.2
SOCIOLOGY/ANTHROPOLOGY	502	553	351	412	318	321	260	-7.2	-19.0	-9.0
SOCIAL SCIENCES, N.E.C.	5,318	5,947	5,607	5,311	5,572	5,139	4,468	-.6	-13.1	-2.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-12. -- FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	46,278	52,222	57,832	63,150	71,075	75,952	79,158	8.6	4.2	8.0
ENGINEERING	1,359	1,881	2,056	2,423	3,580	4,048	4,772	20.0	17.9	19.7
AEROSPACE	15	20	23	27	36	54	51	23.8	-5.6	19.1
AGRICULTURAL	6	10	17	27	28	30	43	30.8	43.3	32.5
BIOMEDICAL	35	46	55	68	111	130	149	24.4	14.6	23.0
CHEMICAL	113	188	259	307	468	511	590	28.6	15.5	26.6
CIVIL	303	339	334	422	663	668	711	14.1	6.4	13.0
ELECTRICAL	221	228	[illegible]	377	450	549	696	16.4	26.8	17.8
ENGINEERING SCIENCE	54	69	80	69	83	105	113	11.7	7.6	11.1
INDUSTRIAL	237	478	401	412	593	669	712	18.9	6.4	17.0
MECHANICAL	81	112	119	137	255	314	355	25.3	13.1	23.5
METALLURGICAL/MATERIALS	70	91	105	138	212	229	281	21.8	22.7	22.0
MINING	15	19	31	30	36	38	58	16.8	52.6	21.3
NUCLEAR	38	47	49	46	77	74	74	11.7	.0	10.0
PETROLEUM	6	4	9	11	29	27	34	28.5	25.9	28.1
ENGINEERING, N.E.C.	165	230	279	352	539	650	905	25.7	39.2	27.5
PHYSICAL SCIENCES	2,534	2,680	2,916	3,051	3,327	3,531	3,844	5.7	8.9	6.1
ASTRONOMY	68	70	69	73	72	72	83	1.0	15.3	2.9
CHEMISTRY	1,863	2,003	2,193	2,289	2,524	2,644	2,847	6.0	7.7	6.2
PHYSICS	586	576	633	662	712	789	891	5.1	12.9	6.2
PHYSICAL SCIENCES, N.E.C.	17	31	21	27	19	26	23	7.3	-11.5	4.4
ENVIRONMENTAL SCIENCES	1,032	1,217	1,489	1,652	2,069	2,243	2,397	13.8	6.9	12.8
ATMOSPHERIC SCIENCES	51	51	67	68	88	98	113	11.5	15.3	12.0
GEOSCIENCES	641	803	958	1,024	1,335	1,484	1,557	15.0	4.9	13.5
OCEANOGRAPHY	190	183	258	295	341	380	424	12.2	11.6	12.2
ENVIRONMENTAL SCIENCES, N.E.C.	150	180	206	265	305	281	303	11.0	7.8	10.6
MATHEMATICAL/COMPUTER SCIENCES	2,524	2,712	2,891	2,795	2,892	3,370	3,819	4.9	13.3	6.1
COMPUTER SCIENCE	505	591	678	695	914	1,2 8	1,491	16.1	20.4	16.7
MATHEMATICS AND APPLIED MATHEMATICS	1,732	1,792	1,863	1,756	1,652	1,750	1,928	.2	10.2	1.5
STATISTICS	287	329	350	344	326	382	400	4.9	4.7	4.9
LIFE SCIENCES	17,402	19,744	22,597	25,342	28,973	30,427	30,955	9.8	1.7	8.6
AGRICULTURAL SCIENCES	870	1,124	1,421	1,723	2,108	2,295	2,236	17.5	-2.6	14.4
BIOLOGICAL SCIENCES	9,148	10,027	10,931	11,774	12,650	12,993	13,158	6.0	1.3	5.3
ANATOMY	238	288	319	342	376	370	344	7.6	-7.0	5.4
BIOCHEMISTRY	826	831	920	992	1,095	1,155	1,173	5.7	1.6	5.1
BIOLOGY	2,259	2,556	2,844	2,921	2,887	2,994	2,863	4.8	-4.4	3.4
BIOMETRY/EPIDEMIOLOGY	206	323	359	388	461	504	435	16.1	-13.7	11.3
BIOPHYSICS	91	115	110	115	102	113	133	3.7	17.7	5.6
BOTANY	731	811	957	1,003	1,018	1,035	1,015	6.0	-1.9	4.8
CELL BIOLOGY	176	204	189	215	260	274	304	7.7	10.9	8.1
ECOLOGY	147	154	212	246	224	290	292	12.0	.7	10.3
ENTOMOLOGY/PARASITOLOGY	162	187	206	237	293	304	303	11.1	-.3	9.4
GENETICS	260	295	322	374	366	371	372	6.1	.3	5.3
MICROBIOLOGY	1,097	1,132	1,227	1,260	1,344	1,373	1,398	3.8	1.8	3.5
NUTRITION	1,130	1,158	1,264	1,559	1,777	1,720	1,905	7.3	10.8	7.7
PATHOLOGY	251	268	331	347	373	360	371	6.2	3.1	5.7
PHARMACOLOGY	275	346	391	437	524	600	636	13.9	6.0	12.7
PHYSIOLOGY	434	487	470	469	553	545	616	3.9	13.0	.1
ZOOLOGY	805	806	727	768	790	765	760	-.8	-.7	-.8
BIOSCIENCES, N.E.C.	60	66	83	101	207	220	238	24.2	8.2	21.8
HEALTH SCIENCES	7,384	8,593	10,245	11,845	14,215	15,139	15,561	12.7	2.8	11.2
ANESTHESIOLOGY	6	21	2	1	11	11	12	10.6	9.1	10.4
CANCER/ONCOLOGY	17	14	9	11	10	10	0	-8.5	-100.0	-100.0
CARDIOLOGY	3	5	0	1	0	1	0	-16.7	-100.0	-100.0
DENTISTRY	70	113	132	140	223	242	222	23.0	-8.3	17.9
ENDOCRINOLOGY	9	13	11	10	16	24	25	17.8	4.2	1.7
GASTROENTEROLOGY	5	0	0	0	0	0	0	-100.0	**	-100.0
HEMATOLOGY	1	2	2	4	7	6	7	34.8	16.7	32.0
NEUROLOGY	62	74	88	96	113	111	97	10.2	-12.6	6.6
NURSING	2,247	2,683	3,683	5,020	5,805	5,953	6,586	17.6	10.6	16.6
OBSTETRICS/GYNECOLOGY	26	14	14	9	9	1	6	-41.9	500.0	-18.9
OPHTHALMOLOGY	4	3	2	4	2	7	4	9.8	-42.9	.0
OTORHINOLARYNGOLOGY	10	6	10	21	2	2	4	-23.5	100.0	-12.3
PEDIATRICS	131	97	88	73	71	87	91	-6.6	4.6	-5.1
PHARMACEUTICAL SCIENCES	237	264	301	370	418	449	509	11.2	13.4	11.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,065	1,244	1,494	1,393	2,194	2,315	2,301	13.8	-.6	11.6
PSYCHIATRY	32	46	49	52	67	38	29	2.9	-23.7	-1.4
PULMONARY DISEASE	4	0	0	0	1	2	4	-10.9	100.0	.0
RADIOLOGY	48	58	57	53	48	48	49	.0	2.1	.3
SPEECH PATHOLOGY/AUDIOLOGY	2,563	3,140	3,349	3,415	3,580	3,924	3,766	7.4	-4.0	5.7
SURGERY	24	17	15	14	2	12	9	-10.9	-25.0	-13.1
VETERINARY SCIENCES	83	102	130	152	199	231	232	18.6	.4	15.8
CLINICAL MEDICINE, N.E.C.	143	35	33	53	79	104	94	-5.2	-9.6	-5.8
HEALTH RELATED, N.E.C.	594	642	776	953	1,358	1,561	1,514	17.5	-3.0	14.3
PSYCHOLOGY	7,429	8,325	9,243	9,644	10,102	10,955	11,324	6.7	3.4	6.2
SOCIAL SCIENCES	13,998	15,663	16,640	18,243	20,132	21,378	22,047	7.3	3.1	6.7
AGRICULTURAL ECONOMICS	149	174	195	248	344	411	433	18.4	5.4	16.5
ANTHROPOLOGY	2,000	2,144	2,335	2,432	2,263	2,330	2,302	2.6	-1.2	2.0
ECONOMICS (EXCEPT AGRICULTURAL)	1,066	1,158	1,286	1,468	1,609	1,921	1,967	10.3	2.4	9.1
GEOGRAPHY	442	502	528	562	560	595	658	5.1	10.6	5.8
HISTORY AND PHILOSOPHY OF SCIENCE	56	74	69	74	63	73	75	4.5	2.7	4.3
LINGUISTICS	764	1,026	1,165	994	1,197	1,172	1,195	7.4	2.0	6.6
POLITICAL SCIENCE	2,109	2,612	2,644	3,061	3,822	3,876	4,221	10.7	8.9	10.4
SOCIOLOGY	2,378	2,532	2,639	2,620	2,483	2,696	2,629	2.1	-2.5	1.4
SOCIOLOGY/ANTHROPOLOGY	302	397	287	293	296	267	266	-2.0	-.4	-1.8
SOCIAL SCIENCES, N.E.C.	4,732	5,044	5,492	6,491	7,495	8,037	8,301	9.2	3.3	8.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-13. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1974-81

DIVISION AND STATE	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL INSTITUTIONS	195,455	210,321	214,090	217,454	216,613	223,414	230,692	234,529	2.8	.7	2.6
NEW ENGLAND	15,744	15,782	16,978	16,700	17,018	17,936	19,096	19,449	3.3	1.8	3.1
CONNECTICUT	2,927	2,820	3,111	3,044	3,039	3,120	3,456	3,567	2.8	3.2	2.9
MAINE	333	364	389	378	378	355	344	313	.5	-9.0	-.9
MASSACHUSETTS	10,040	10,316	11,224	11,020	11,374	12,138	13,034	13,257	4.4	1.7	4.1
NEW HAMPSHIRE	662	587	601	632	530	620	647	613	-.4	-5.3	-1.1
RHODE ISLAND	1,311	1,317	1,268	1,281	1,353	1,342	1,233	1,301	-1.0	5.5	-.1
VERMONT	471	378	385	345	344	361	382	398	-3.4	4.2	-2.4
MIDDLE ATLANTIC	28,938	30,941	30,530	31,096	30,864	31,995	34,591	36,243	3.0	4.8	3.3
NEW JERSEY	3,013	3,471	3,222	3,190	3,490	3,626	3,905	4,091	4.4	4.8	4.5
NEW YORK	18,256	19,311	18,602	19,078	18,722	19,465	20,907	21,754	2.3	4.1	2.5
PENNSYLVANIA	7,669	8,159	8,706	8,828	8,652	8,904	9,779	10,398	4.1	6.3	4.4
EAST NORTH CENTRAL	41,840	43,424	43,459	43,728	42,637	43,350	44,197	43,666	.9	-1.2	.6
ILLINOIS	10,877	11,352	11,070	11,115	11,063	11,312	11,577	11,488	1.0	-.8	.8
INDIANA	5,521	5,685	5,751	5,663	5,677	5,655	5,737	5,751	.6	.2	.6
MICHIGAN	10,506	10,130	9,896	10,234	9,666	9,825	9,670	9,100	-1.4	-5.9	-2.0
OHIO	9,052	9,576	10,501	10,544	10,316	10,655	11,075	11,086	3.4	.1	2.9
WISCONSIN	5,884	6,681	6,241	6,172	5,915	5,903	6,138	6,241	.7	1.7	.8
WEST NORTH CENTRAL	14,572	16,455	16,988	16,863	16,620	17,061	17,839	17,827	3.4	-.1	2.9
IOWA	2,481	2,942	3,140	3,101	3,199	3,447	3,532	3,478	6.1	-1.5	4.9
KANSAS	2,602	2,807	3,018	3,096	3,054	2,988	3,327	3,308	4.2	-.6	3.5
MINNESOTA	3,961	4,439	4,238	4,054	4,050	4,259	4,321	4,360	1.5	.9	1.4
MISSOURI	3,637	4,203	4,276	4,200	3,893	3,899	3,979	3,878	1.5	-2.5	.9
NEBRASKA	889	1,015	1,191	1,329	1,326	1,431	1,488	1,532	9.0	3.0	8.1
NORTH DAKOTA	571	631	701	607	633	589	687	758	3.1	10.3	4.1
SOUTH DAKOTA	431	418	424	476	465	448	505	513	2.7	1.6	2.5
SOUTH ATLANTIC	26,124	28,429	28,037	28,932	29,104	30,532	30,878	32,015	2.8	3.7	2.9
DELAWARE	570	590	572	630	635	710	733	728	4.3	-.7	3.6
DISTRICT OF COLUMBIA	2,857	3,792	3,229	3,754	3,499	3,961	3,557	3,737	3.7	5.1	3.9
FLORIDA	4,864	4,961	5,154	4,943	4,998	5,364	5,453	6,065	1.9	11.2	3.2
GEORGIA	3,484	3,614	3,616	3,792	3,951	4,020	4,191	4,380	3.1	4.5	3.3
MARYLAND	4,021	3,903	3,422	3,446	3,384	3,489	3,464	3,563	-2.5	2.9	-1.7
NORTH CAROLINA	4,558	4,808	4,844	4,949	5,193	5,458	5,557	5,486	3.4	-1.3	2.7
SOUTH CAROLINA	1,540	1,833	1,929	1,937	1,755	1,799	1,950	1,926	4.0	-1.2	3.2
VIRGINIA	3,099	3,663	3,892	4,097	4,212	4,342	4,643	4,868	7.0	4.8	6.7
WEST VIRGINIA	1,131	1,265	1,379	1,384	1,477	1,389	1,330	1,262	2.7	-5.1	1.6
EAST SOUTH CENTRAL	7,318	8,424	8,852	9,257	9,249	9,364	9,150	9,131	3.8	-.2	3.2
ALABAMA	1,436	1,635	1,865	2,080	2,292	2,438	2,410	2,477	9.0	2.8	8.1
KENTUCKY	1,497	1,700	1,725	1,774	1,746	1,778	1,818	1,885	3.3	3.7	3.3
MISSISSIPPI	1,121	1,411	1,434	1,482	1,546	1,526	1,456	1,441	4.5	-1.0	3.7
TENNESSEE	3,264	3,678	3,828	3,921	3,665	3,622	3,466	3,328	1.0	-4.0	.3
WEST SOUTH CENTRAL	15,692	16,375	17,272	18,208	18,243	18,943	19,428	19,646	3.6	1.1	3.3
ARKANSAS	653	695	753	781	744	774	760	864	2.6	13.7	4.1
LOUISIANA	2,296	2,068	2,063	2,226	2,493	2,482	2,508	2,769	1.5	10.4	2.7
OKLAHOMA	2,503	2,464	2,437	2,677	2,669	2,730	2,921	2,549	2.6	-12.7	.3
TEXAS	10,240	11,148	12,019	12,524	12,337	12,957	13,239	13,464	4.4	1.7	4.0
MOUNTAIN	13,574	15,789	15,581	15,207	15,203	15,162	15,494	15,961	2.2	3.0	2.3
ARIZONA	3,256	3,372	3,455	3,410	3,417	3,452	3,744	3,819	2.4	2.0	2.3
COLORADO	4,757	6,170	5,789	5,416	5,198	5,110	5,007	5,237	.9	4.6	1.4
IDAHO	592	699	740	792	795	653	640	621	1.3	-3.0	.7
MONTANA	666	709	739	717	687	686	756	746	2.1	-1.3	1.6
NEVADA	328	357	399	346	326	361	365	418	1.8	14.5	3.5
NEW MEXICO	966	1,266	1,248	1,263	1,439	1,522	1,566	1,604	8.4	2.4	7.5
UTAH	2,474	2,625	2,613	2,668	2,741	2,821	2,990	2,851	3.2	-4.6	2.0
WYOMING	535	591	598	595	600	557	426	665	-3.7	56.1	3.2
PACIFIC	30,747	33,635	35,377	36,394	36,619	38,116	38,696	39,199	3.9	1.3	3.5
ALASKA	160	131	170	190	223	234	244	229	7.3	-6.1	5.3
CALIFORNIA	23,338	26,038	27,075	27,319	27,675	29,076	29,182	30,132	3.8	3.3	3.7
HAWAII	1,281	1,331	1,353	1,373	1,333	1,292	1,723	1,693	5.1	-1.7	4.1
OREGON	2,137	2,276	2,398	2,681	2,706	2,751	2,766	2,619	4.4	-5.3	2.9
WASHINGTON	3,831	3,859	4,381	4,831	4,682	4,763	4,781	4,526	3.8	-5.3	2.4
OUTLYING AREAS	906	1,067	1,016	1,069	1,056	955	1,323	1,392	6.5	5.2	6.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-14. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-81

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL CHANGE PERCENT		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL AREAS:											
TOTAL, ALL SOURCES	195,455	210,321	214,090	217,454	216,613	223,414	230,692	234,529	2.8	1.7	2.6
FEDERAL, TOTAL	47,989	48,249	48,594	50,378	51,273	52,874	52,958	50,844	1.7	-4.0	-.8
DEPT OF DEFENSE	5,547	5,084	4,798	4,993	0	4,998	5,239	5,608	-.9	7.0	.2
DEPT OF HHS, TOTAL	20,022	20,869	20,366	21,081	21,760	22,652	19,392	17,986	-.5	-7.3	-1.5
NIH	11,919	12,214	11,360	10,928	10,880	11,663	11,575	11,175	-.5	-3.5	-.9
OTHER HHS	8,103	8,655	9,006	10,153	10,880	10,989	7,817	6,811	-.6	-12.9	-2.5
NSF	8,818	8,796	8,962	9,023	9,009	9,275	9,245	9,056	.8	-2.0	.4
ALL OTHER FEDERAL	13,602	13,500	14,468	15,281	20,504	15,949	19,082	18,194	5.8	-4.7	4.2
INSTITUTIONAL SUPPORT	75,223	77,083	79,218	80,405	79,728	82,815	86,745	90,441	2.4	4.3	2.7
OTHER OUTSIDE SUPPORT, TOTAL	16,376	16,852	17,680	18,229	19,265	20,039	21,114	22,276	4.3	5.5	4.5
ALL OTHER U.S.	11,847	11,440	11,373	11,323	19,265	12,493	13,084	13,745	1.7	5.1	2.1
FOREIGN	4,529	5,412	6,307	6,906	0	7,546	8,030	8,531	10.0	6.2	9.5
SELF-SUPPORT	55,867	68,137	68,598	68,442	66,347	67,686	69,875	70,968	3.8	1.6	3.5
ENGINEERING:											
TOTAL, ALL SOURCES	33,681	37,189	36,583	37,185	37,539	39,925	42,481	45,366	3.9	6.8	4.3
FEDERAL, TOTAL	10,189	10,296	10,588	10,741	10,670	10,995	11,294	11,043	1.7	-2.2	1.2
DEPT OF DEFENSE	2,792	2,824	2,620	2,738	0	2,663	2,902	3,078	.6	6.1	1.4
DEPT OF HHS, TOTAL	884	1,026	1,054	981	1,056	1,107	709	571	-3.6	-19.5	-6.1
NIH	665	717	686	562	557	526	514	431	-4.2	-16.1	-6.0
OTHER HHS	219	309	368	419	499	581	195	140	-1.9	-28.2	-6.2
NSF	2,494	2,575	2,569	2,512	2,344	2,416	2,415	2,348	-.5	-2.8	-.9
ALL OTHER FEDERAL	4,019	3,871	4,345	4,510	7,270	4,809	5,268	5,046	4.6	-4.2	3.3
INSTITUTIONAL SUPPORT	10,066	10,282	10,483	10,600	10,670	11,591	12,720	14,325	4.0	12.6	5.2
OTHER OUTSIDE SUPPORT, TOTAL	4,352	4,535	4,887	5,191	5,373	5,672	6,238	6,823	6.2	9.4	6.6
ALL OTHER U.S.	3,141	3,042	3,149	3,251	5,373	3,735	4,208	4,690	5.0	11.5	5.9
FOREIGN	1,211	1,493	1,738	1,940	0	1,937	2,030	2,133	9.0	5.1	8.4
SELF-SUPPORT	9,074	12,076	10,625	10,653	10,826	11,667	12,229	13,175	5.1	7.7	5.5
PHYSICAL SCIENCES:											
TOTAL, ALL SOURCES	21,255	21,317	21,623	21,801	21,544	21,782	22,281	22,634	.8	1.6	.9
FEDERAL, TOTAL	6,156	6,256	6,409	6,635	6,999	7,417	7,690	7,940	3.8	3.3	3.7
DEPT OF DEFENSE	644	587	542	617	0	646	696	796	1.3	14.4	3.1
DEPT OF HHS, TOTAL	1,157	1,276	1,354	1,329	1,407	1,584	1,627	1,515	5.8	-6.9	3.9
NIH	1,039	1,206	1,243	1,187	1,276	1,413	1,536	1,408	6.7	-8.3	4.4
OTHER HHS	118	70	111	142	131	171	91	107	-4.2	17.6	-1.4
NSF	2,631	2,604	2,754	2,759	2,816	2,956	2,878	3,027	1.5	5.2	2.0
ALL OTHER FEDERAL	1,724	1,789	1,759	1,930	2,776	2,231	2,489	2,602	6.3	4.5	6.1
INSTITUTIONAL SUPPORT	12,045	12,035	12,198	12,219	11,773	11,472	11,921	11,926	-.2	*	-.1
OTHER OUTSIDE SUPPORT, TOTAL	1,352	1,184	1,325	1,345	1,348	1,478	1,308	1,405	-.5	7.4	.6
ALL OTHER U.S.	1,097	908	949	953	1,348	1,084	949	1,041	-2.4	9.7	-.7
FOREIGN	255	276	376	392	0	394	359	364	5.9	1.4	5.2
SELF-SUPPORT	1,702	1,842	1,691	1,602	1,424	1,415	1,362	1,363	-3.6	.1	-3.1
ENVIRONMENTAL SCIENCES:											
TOTAL, ALL SOURCES	8,335	8,863	9,356	9,623	9,636	9,824	9,943	10,247	3.0	3.1	3.0
FEDERAL, TOTAL	2,561	2,623	2,797	2,927	3,014	3,323	3,251	2,864	4.1	-11.9	1.6
DEPT OF DEFENSE	457	368	357	329	0	324	293	304	-7.1	3.8	-5.7
DEPT OF HHS, TOTAL	49	81	118	194	227	220	68	55	5.6	-19.1	1.7
NIH	22	30	34	40	22	18	25	17	2.2	-32.0	-3.6
OTHER HHS	27	51	84	154	205	202	43	38	8.1	-11.6	5.0
NSF	1,110	1,144	1,194	1,197	1,242	1,270	1,238	1,197	1.8	-3.3	1.1
ALL OTHER FEDERAL	945	1,030	1,128	1,207	1,545	1,509	1,652	1,308	9.8	-20.8	4.8
INSTITUTIONAL SUPPORT	3,053	3,224	3,430	3,520	3,428	3,458	3,576	3,866	2.7	8.1	3.4
OTHER OUTSIDE SUPPORT, TOTAL	706	727	715	732	825	806	984	1,073	5.7	9.0	6.2
ALL OTHER U.S.	479	472	415	401	825	496	641	707	5.0	10.3	5.7
FOREIGN	227	255	300	331	0	310	343	366	7.1	6.7	7.1
SELF-SUPPORT	2,015	2,289	2,414	2,444	2,369	2,237	2,132	2,444	.9	14.6	2.8
MATHEMATICAL/COMPUTER SCIENCES:											
TOTAL, ALL SOURCES	13,739	14,125	14,525	13,975	13,690	14,177	15,253	16,124	1.8	5.7	2.3
FEDERAL, TOTAL	1,580	1,436	1,422	1,434	1,468	1,627	1,717	1,718	1.4	.1	1.2
DEPT OF DEFENSE	662	574	583	516	0	608	621	728	-1.1	17.2	1.4
DEPT OF HHS, TOTAL	138	168	151	142	160	141	122	81	-2.0	-33.6	-7.3
NIH	108	131	131	122	118	102	100	68	-1.3	-32.0	-6.4
OTHER HHS	30	37	20	20	42	39	22	13	-5.0	-40.9	-11.3
NSF	556	498	480	542	537	584	593	603	1.1	1.7	1.2
ALL OTHER FEDERAL	224	196	208	234	771	294	381	306	9.3	-19.7	4.6
INSTITUTIONAL SUPPORT	8,089	8,155	8,300	8,032	7,914	7,937	8,298	8,741	.4	5.3	1.1
OTHER OUTSIDE SUPPORT, TOTAL	649	801	842	822	844	1,041	1,117	1,140	9.5	2.1	8.4
ALL OTHER U.S.	367	396	395	419	844	593	647	631	9.9	-2.5	8.0
FOREIGN	282	405	447	403	0	448	470	509	8.9	8.3	8.8
SELF-SUPPORT	3,421	3,733	3,961	3,687	3,464	3,572	4,121	4,525	3.2	9.8	4.1

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TABLE C-14. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-81

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
AGRICULTURAL SCIENCES:											
TOTAL, ALL SOURCES	7,606	8,491	9,030	9,289	9,244	9,370	9,642	9,623	4.0	-0.2	3.4
FEDERAL, TOTAL	1,605	1,622	1,615	1,665	1,751	1,752	1,785	1,721	1.8	-3.6	1.0
DEPT OF DEFENSE	44	15	22	15	0	16	11	11	-21.2	.0	-18.5
DEPT OF HHS, TOTAL	94	103	83	69	85	104	124	59	4.7	-52.4	-6.4
NIH	68	75	58	50	43	69	110	53	8.3	-51.8	-3.5
OTHER HHS	26	28	25	19	42	35	14	6	-9.8	-57.1	-18.9
NSF	94	133	105	75	86	74	82	70	-2.3	-14.6	-4.1
ALL OTHER FEDERAL	1,371	1,371	1,405	1,506	1,580	1,558	1,568	1,581	2.3	.8	2.1
INSTITUTIONAL SUPPORT	2,522	2,825	3,097	3,160	3,198	3,408	3,374	3,431	5.0	1.7	4.5
OTHER OUTSIDE SUPPORT, TOTAL	1,424	1,618	1,769	1,823	1,801	1,811	2,044	2,143	6.2	4.8	6.0
ALL OTHER U.S.	804	810	799	873	1,801	800	921	950	2.3	3.1	2.4
FOREIGN	620	808	970	950	0	1,011	1,123	1,193	10.4	6.2	9.8
SELF-SUPPORT	2,055	2,426	2,549	2,641	2,494	2,399	2,439	2,328	2.9	-4.6	1.8
BIOLOGICAL SCIENCES:											
TOTAL, ALL SOURCES	32,180	34,555	35,243	35,816	35,567	35,351	35,270	34,854	1.5	-1.2	1.1
FEDERAL, TOTAL	9,605	9,901	9,713	9,878	10,071	10,731	10,595	10,346	.6	-2.4	1.1
DEPT OF DEFENSE	167	139	129	129	0	118	149	96	-1.9	-35.6	-7.6
DEPT OF HHS, TOTAL	7,010	7,279	6,755	6,861	7,014	7,514	7,165	7,129	.4	-.5	.2
NIH	6,539	6,687	6,248	6,403	6,495	6,950	6,774	6,698	.6	-1.1	.3
OTHER HHS	471	592	507	458	519	564	391	431	-3.1	10.2	-1.3
NSF	886	920	1,040	1,129	1,193	1,136	1,167	1,079	4.7	-7.5	2.9
ALL OTHER FEDERAL	1,542	1,563	1,789	1,759	1,864	1,963	2,114	2,042	5.4	-3.4	4.1
INSTITUTIONAL SUPPORT	13,400	13,863	14,463	15,012	14,761	14,845	15,364	15,455	2.3	.6	2.1
OTHER OUTSIDE SUPPORT, TOTAL	2,122	2,269	2,500	2,505	2,715	2,822	2,643	2,665	3.7	.8	3.3
ALL OTHER U.S.	1,536	1,644	1,739	1,653	2,715	1,765	1,697	1,632	1.7	-3.8	.9
FOREIGN	586	625	761	852	0	1,057	946	1,033	8.3	9.2	8.4
SELF-SUPPORT	7,053	8,522	8,567	8,421	8,020	6,953	6,668	6,388	-.9	-4.2	-1.4
HEALTH SCIENCES:											
TOTAL, ALL SOURCES	15,221	16,566	17,720	19,341	20,514	21,861	22,928	23,040	7.1	.5	6.1
FEDERAL, TOTAL	5,591	6,049	6,431	7,423	7,807	8,140	8,331	7,819	6.9	-6.1	4.9
DEPT OF DEFENSE	246	147	150	189	0	172	177	200	-5.3	13.0	-2.9
DEPT OF HHS, TOTAL	4,696	5,305	5,653	6,466	6,784	7,211	6,226	5,640	4.8	-9.4	2.7
NIH	1,301	1,273	1,118	940	942	967	957	1,095	-5.0	14.4	-2.4
OTHER HHS	3,395	4,032	4,535	5,526	5,842	6,244	5,269	4,545	7.6	-13.7	4.3
NSF	59	33	44	48	57	51	49	36	-3.0	-26.5	-6.8
ALL OTHER FEDERAL	590	564	584	720	966	706	1,879	1,943	21.3	3.4	18.6
INSTITUTIONAL SUPPORT	3,267	3,349	3,369	3,597	3,684	4,180	4,652	4,574	6.1	-1.7	4.9
OTHER OUTSIDE SUPPORT, TOTAL	1,016	889	939	1,023	1,187	1,285	1,292	1,342	4.1	3.9	4.1
ALL OTHER U.S.	714	610	637	653	1,187	776	772	860	1.3	11.4	2.7
FOREIGN	302	279	302	370	0	509	520	482	9.5	-7.3	6.9
SELF-SUPPORT	5,347	6,279	6,981	7,298	7,836	8,256	8,653	9,305	8.4	7.5	8.2
PSYCHOLOGY:											
TOTAL, ALL SOURCES	18,889	19,696	21,431	21,225	20,648	20,695	21,574	21,470	2.2	-.5	2.8
FEDERAL, TOTAL	4,423	4,321	4,068	3,925	3,921	3,432	3,184	2,891	-5.3	-9.2	-5.9
DEPT OF DEFENSE	193	134	140	157	0	150	127	139	-4.7	9.4	-4.6
DEPT OF HHS, TOTAL	3,269	3,128	2,972	2,822	2,898	2,481	1,870	1,632	-8.9	-12.7	-9.4
NIH	1,477	1,426	1,267	1,177	1,083	1,075	1,009	897	-6.2	-11.1	-6.9
OTHER HHS	1,792	1,702	1,705	1,645	1,815	1,406	861	735	-11.5	-14.6	-12.0
NSF	274	270	212	226	222	254	281	243	.4	-13.5	-1.7
ALL OTHER FEDERAL	687	789	744	720	801	547	906	877	4.7	-3.2	3.5
INSTITUTIONAL SUPPORT	6,870	6,944	7,335	7,494	7,423	7,444	7,849	8,595	2.2	9.5	3.3
OTHER OUTSIDE SUPPORT, TOTAL	1,134	1,186	1,274	1,292	1,600	1,350	1,437	1,487	4.0	3.5	3.9
ALL OTHER U.S.	1,083	1,104	1,190	1,186	1,600	1,237	1,321	1,412	3.4	6.9	3.9
FOREIGN	51	82	84	106	0	113	116	75	14.7	-35.3	5.7
SELF-SUPPORT	6,462	7,245	8,754	8,514	7,704	8,469	9,104	8,497	5.9	-6.7	4.0
SOCIAL SCIENCES:											
TOTAL, ALL SOURCES	44,549	49,519	48,579	49,199	48,231	50,429	51,320	51,171	2.4	-.3	2.0
FEDERAL, TOTAL	6,279	5,745	5,551	5,750	5,572	5,457	5,111	4,502	-3.4	-11.9	-4.6
DEPT OF DEFENSE	340	296	255	303	0	301	263	256	-4.2	-2.7	-4.0
DEPT OF HHS, TOTAL	2,725	2,503	2,226	2,217	2,129	2,290	1,481	1,304	-9.7	-12.0	-10.0
NIH	700	669	575	447	344	543	550	508	-3.9	-7.6	-4.5
OTHER HHS	2,025	1,834	1,651	1,770	1,785	1,747	931	796	-12.1	-14.5	-12.5
NSF	714	619	564	535	512	534	542	453	-4.5	-16.4	-6.3
ALL OTHER FEDERAL	2,500	2,327	2,506	2,695	2,931	2,332	2,825	2,489	2.1	-11.9	-.1
INSTITUTIONAL SUPPORT	15,911	16,406	16,543	16,771	16,877	18,480	18,991	19,528	3.0	2.8	3.0
OTHER OUTSIDE SUPPORT, TOTAL	3,621	3,643	3,429	3,496	3,572	3,774	4,051	4,198	1.9	3.6	2.1
ALL OTHER U.S.	2,626	2,454	2,100	1,934	3,572	2,007	1,928	1,822	-5.0	-5.5	-5.1
FOREIGN	995	1,189	1,329	1,562	0	1,767	2,123	2,376	13.5	11.9	13.2
SELF-SUPPORT	18,738	23,725	23,056	23,182	22,210	22,718	23,167	22,943	3.6	-1.0	2.9

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-15. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY FEDERAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	47,989	48,249	48,594	50,378	51,273	52,874	52,958	50,844	1.7	-4.0	.8
ENGINEERING	10,189	10,296	10,588	10,741	10,670	10,995	11,294	11,043	1.7	-2.2	1.2
AEROSPACE	658	592	514	584	495	522	573	668	-2.3	16.6	.2
AGRICULTURAL	105	132	99	161	157	134	131	148	3.8	13.0	5.0
BIOMEDICAL	274	287	269	213	232	285	248	220	-1.6	-11.3	-3.1
CHEMICAL	882	1,031	1,100	1,166	1,178	1,199	1,293	1,304	6.6	.9	5.7
CIVIL	1,805	1,673	1,633	1,521	1,540	1,542	1,644	1,409	-1.5	-14.3	-3.5
ELECTRICAL	2,295	2,278	2,247	2,392	2,394	2,415	2,575	2,446	1.9	-5.0	.9
ENGINEERING SCIENCE	587	563	535	477	511	590	595	614	.2	3.2	.6
INDUSTRIAL	651	541	626	639	596	686	516	529	-3.8	2.5	-2.9
MECHANICAL	1,340	1,398	1,508	1,441	1,405	1,496	1,476	1,524	1.6	3.3	1.9
METALLURGICAL/MATERIALS	779	833	926	943	987	1,127	1,122	1,197	6.3	6.7	6.3
MINING	102	149	215	231	204	202	193	192	11.2	-.5	9.5
NUCLEAR	288	349	359	324	386	293	278	278	-.6	.0	-.5
PETROLEUM	18	39	56	73	60	67	71	53	25.7	-25.4	16.7
ENGINEERING, N.E.C.	405	431	501	576	525	437	579	461	6.1	-20.4	1.9
PHYSICAL SCIENCES	6,156	6,256	6,409	6,635	6,999	7,417	7,690	7,940	3.8	3.3	3.7
ASTRONOMY	269	264	279	258	277	249	264	254	-.3	-3.8	-.8
CHEMISTRY	2,866	3,105	3,242	3,366	3,650	3,973	4,162	4,247	6.4	2.0	5.8
PHYSICS	2,994	2,865	2,880	2,991	3,062	3,186	3,244	3,432	1.3	5.8	2.0
PHYSICAL SCIENCES, N.E.C.	23	22	8	20	10	9	20	7	-2.3	-65.0	-15.6
ENVIRONMENTAL SCIENCES	2,561	2,602	2,797	2,927	3,014	3,323	3,251	2,864	4.1	-11.9	1.6
ATMOSPHERIC SCIENCES	494	484	527	540	504	528	517	480	.8	-7.2	-.4
GEOSCIENCES	1,164	1,235	1,405	1,528	1,571	1,796	1,801	1,465	7.5	-18.7	3.3
OCEANOGRAPHY	689	696	658	672	728	773	735	697	1.1	-5.2	.2
ENVIRONMENTAL SCIENCES, N.E.C.	214	208	207	187	211	226	198	222	-1.3	12.1	.5
MATHEMATICAL/COMPUTER SCIENCES	1,580	1,436	1,422	1,434	1,468	1,627	1,717	1,718	1.4	.1	1.2
COMPUTER SCIENCE	720	743	708	711	736	815	926	962	4.3	3.9	4.2
MATHEMATICS AND APPLIED MATHEMATICS	638	525	532	521	554	654	646	660	.2	2.2	.5
STATISTICS	222	168	182	202	178	158	145	96	-6.9	-33.8	-11.3
LIFE SCIENCES	16,801	17,572	17,759	18,966	19,629	20,623	20,711	19,886	3.5	-4.0	2.4
AGRICULTURAL SCIENCES	1,605	1,622	1,615	1,665	1,751	1,752	1,785	1,721	1.8	-3.6	1.0
BIOLOGICAL SCIENCES	9,605	9,901	9,713	9,878	10,071	10,731	10,595	10,346	1.6	-2.4	1.1
ANATOMY	327	296	256	252	249	262	246	246	-4.6	.0	-4.0
BIOCHEMISTRY	1,782	1,605	1,650	1,736	1,686	1,761	1,741	1,770	-.4	1.7	-.1
BIOLOGY	1,336	1,508	1,581	1,561	1,696	1,833	1,743	1,673	4.5	-4.0	3.3
BIOMETRY/EPIDEMIOLOGY	288	323	287	307	378	354	398	409	5.5	2.8	5.1
BIOPHYSICS	348	361	357	345	320	320	282	233	-3.4	-17.4	-5.6
BOTANY	427	469	527	578	572	611	621	531	6.4	-14.5	3.2
CELL BIOLOGY	282	295	253	354	405	447	492	541	9.7	10.0	9.8
ECOLOGY	107	135	166	164	229	179	200	171	11.0	-14.5	6.9
ENTOMOLOGY/PARASITOLOGY	336	340	318	301	270	271	350	312	.7	-10.9	-1.1
GENETICS	330	394	328	395	384	391	391	351	2.9	-10.2	.9
MICROBIOLOGY	1,175	1,257	1,214	1,184	1,203	1,303	1,291	1,187	1.6	-8.1	1.1
NUTRITION	623	568	565	591	551	591	608	557	-.4	-8.4	-1.6
PATHOLOGY	369	367	323	262	236	302	301	310	-3.3	3.0	-2.5
PHARMACOLOGY	646	736	756	753	790	872	818	837	4.0	2.3	3.8
PHYSIOLOGY	712	696	631	634	625	639	610	637	-2.5	4.4	-1.6
ZOOLOGY	462	486	440	387	397	449	359	374	-4.1	4.2	-3.0
BIOSCIENCES, N.E.C.	55	65	61	74	80	146	144	207	17.4	43.8	20.8
HEALTH SCIENCES	5,591	6,049	6,431	7,423	7,807	8,140	8,331	7,819	6.9	-6.1	4.9
ANESTHESIOLOGY	13	5	2	0	0	0	0	0	-100.0	**	-100.0
CANCER/ONCOLOGY	69	54	40	49	49	43	42	0	-7.9	-100.0	-100.0
CARDIOLOGY	22	19	0	2	2	3	4	0	-24.7	-100.0	-100.0
DENTISTRY	116	158	132	135	156	164	160	116	5.5	-27.5	.0
ENDOCRINOLOGY	8	17	12	10	12	14	20	23	16.5	15.0	16.3
GASTROENTEROLOGY	25	8	6	5	1	0	0	0	-100.0	**	-100.0
HEMATOLOGY	15	0	0	0	1	0	0	3	-100.0	**	-20.5
NEUROLOGY	133	206	186	173	204	207	206	175	7.6	-15.0	4.0
NURSING	1,444	1,927	2,687	3,642	3,699	3,640	3,795	3,838	17.5	1.1	15.0
OBSTETRICS/GYNECOLOGY	31	21	23	17	12	18	2	2	-36.7	.0	-32.4
OPHTHALMOLOGY	17	10	6	6	1	2	10	11	-8.5	10.0	-6.0
OTORHINOLARYNGOLOGY	42	28	26	14	9	8	4	5	-32.4	25.0	-26.2
PEDIATRICS	86	62	62	43	41	47	47	65	-9.6	38.3	-3.9
PHARMACEUTICAL SCIENCES	310	338	329	354	306	302	299	348	-.6	16.4	1.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,270	1,423	1,359	1,260	1,642	1,938	1,961	1,763	7.5	-10.1	4.8
PSYCHIATRY	111	39	29	41	30	51	16	17	-27.6	6.3	-23.5
PULMONARY DISEASE	25	5	0	0	0	0	2	3	-34.4	50.0	-26.1
RADIOLOGY	143	143	108	97	70	68	74	74	-10.4	.0	-9.0
SPEECH PATHOLOGY/AUDIOLOGY	907	859	804	884	811	826	782	670	-2.4	-14.3	-4.2
SURGERY	37	31	29	18	7	1	5	16	-28.4	220.0	-11.3
VETERINARY SCIENCES	109	124	109	119	111	114	126	114	2.4	-9.5	.6
CLINICAL MEDICINE, N.E.C.	218	73	29	43	30	42	81	37	-15.2	-54.3	-22.4
HEALTH RELATED, N.E.C.	440	499	453	511	613	652	695	539	7.9	-22.4	2.9
PSYCHOLOGY	4,423	4,321	4,068	3,925	3,921	3,432	3,184	2,891	-5.3	-9.2	-5.9
SOCIAL SCIENCES	6,279	5,745	5,551	5,750	5,572	5,457	5,111	4,502	-3.4	-11.9	-4.6
AGRICULTURAL ECONOMICS	422	472	434	509	524	445	452	478	1.2	5.8	1.8
ANTHROPOLOGY	639	630	582	548	512	464	431	407	-6.4	-5.6	-6.2
ECONOMICS (EXCEPT AGRICULTURAL)	695	640	536	586	514	534	587	431	-2.8	-26.6	-6.6
GEOGRAPHY	186	152	176	167	154	126	128	108	-6.0	-15.6	-7.5
HISTORY AND PHILOSOPHY OF SCIENCE	10	15	18	14	8	15	19	7	11.3	-63.2	-5.0
LINGUISTICS	181	153	189	146	126	150	135	155	-4.8	14.8	-2.2
POLITICAL SCIENCE	811	669	806	1,122	1,098	1,019	897	828	1.7	-7.7	.3
SOCIOLOGY	1,165	1,078	943	825	758	748	692	676	-8.3	-2.3	-7.5
SOCIOLOGY/ANTHROPOLOGY	87	64	58	38	41	42	53	18	-7.9	-66.0	-20.2
SOCIAL SCIENCES, N.E.C.	2,083	1,872	1,809	1,795	1,837	1,914	1,717	1,394	-3.2	-18.8	-5.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-16. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY INSTITUTIONAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	75,223	77,083	79,218	80,405	79,728	82,815	86,745	90,441	2.4	4.3	2.7
ENGINEERING	10,066	10,282	10,483	10,600	10,670	11,591	12,720	14,325	4.0	12.6	5.2
AEROSPACE	339	319	340	289	336	331	403	369	2.9	-8.4	1.2
AGRICULTURAL	183	215	201	201	213	254	218	268	3.0	22.9	5.6
BIOMEDICAL	163	186	179	189	183	215	232	260	6.1	12.1	6.9
CHEMICAL	1,133	1,090	1,192	1,242	1,325	1,483	1,475	1,775	4.5	20.3	6.6
CIVIL	1,511	1,728	1,778	1,935	1,840	1,847	2,025	2,213	5.0	9.3	5.6
ELECTRICAL	2,342	2,468	2,444	2,320	2,355	2,598	2,897	3,413	3.6	17.8	5.5
ENGINEERING SCIENCE	292	291	363	408	425	315	335	348	2.3	3.9	2.5
INDUSTRIAL	918	914	935	875	840	941	985	1,098	1.2	11.5	2.6
MECHANICAL	1,641	1,470	1,579	1,584	1,599	1,765	1,996	2,207	3.3	10.6	4.3
METALLURGICAL/MATERIALS	397	436	363	390	402	382	493	526	3.7	6.7	4.1
MINING	96	78	70	75	88	71	74	81	-4.2	9.5	-2.4
NUCLEAR	354	398	363	380	249	373	333	331	-1.0	-.6	-1.0
PETROLEUM	55	37	46	60	61	90	127	120	15.0	-5.5	11.8
ENGINEERING, N.E.C.	642	652	630	652	734	926	1,127	1,316	9.8	16.8	10.8
PHYSICAL SCIENCES	12,045	12,035	12,198	12,219	11,773	11,472	11,921	11,926	-.2	*	-.1
ASTRONOMY	275	275	246	245	222	277	258	244	-1.1	-5.4	-1.7
CHEMISTRY	7,191	7,294	7,536	7,615	7,432	7,201	7,384	7,353	.4	-.4	.3
PHYSICS	4,539	4,421	4,378	4,327	4,079	3,967	4,245	4,293	-1.1	1.1	-.8
PHYSICAL SCIENCES, N.E.C.	40	45	38	32	40	27	34	36	-2.7	5.9	-1.5
ENVIRONMENTAL SCIENCES	3,053	3,224	3,430	3,520	3,428	3,458	3,576	3,866	2.7	8.1	3.4
ATMOSPHERIC SCIENCES	159	176	145	128	142	135	138	129	-2.3	-6.5	-2.9
GEOSCIENCES	2,288	2,346	2,556	2,545	2,451	2,532	2,624	2,849	2.3	8.6	3.2
OCEANOGRAPHY	334	363	372	433	376	345	358	401	1.2	12.0	2.6
ENVIRONMENTAL SCIENCES, N.E.C.	272	339	357	414	459	446	456	487	9.0	6.8	8.7
MATHEMATICAL/COMPUTER SCIENCES	8,089	8,155	8,300	8,032	7,914	7,937	8,298	8,741	.4	5.3	1.1
COMPUTER SCIENCE	1,280	1,391	1,517	1,503	1,531	1,712	1,979	2,328	7.5	17.6	8.9
MATHEMATICS AND APPLIED MATHEMATICS	6,121	6,004	5,988	5,747	5,560	5,374	5,405	5,474	-2.1	1.3	-1.6
STATISTICS	688	760	795	782	823	851	914	939	4.8	2.7	4.5
LIFE SCIENCES	19,189	20,037	20,929	21,769	21,643	22,433	23,390	23,460	3.4	.3	2.9
AGRICULTURAL SCIENCES	2,522	2,825	3,097	3,160	3,198	3,408	3,374	3,431	5.0	1.7	4.5
BIOLOGICAL SCIENCES	13,400	13,863	14,463	15,012	14,761	14,845	15,364	15,455	2.3	.6	2.1
ANATOMY	380	407	458	507	489	558	516	523	5.2	1.4	4.7
BIOCHEMISTRY	1,063	1,118	1,163	1,193	1,257	1,238	1,303	1,307	3.5	.3	3.0
BIOLOGY	3,832	4,116	4,315	4,416	4,212	4,134	4,297	4,145	1.9	-3.5	1.1
BIOMETRY/EPIDEMIOLOGY	85	96	110	163	165	170	171	225	12.4	31.6	14.9
BIOPHYSICS	145	153	128	119	88	103	99	109	-4.2	10.1	-4.0
BOTANY	1,669	1,627	1,685	1,691	1,689	1,611	1,574	1,593	-1.0	1.2	-.7
CELL BIOLOGY	198	244	246	227	194	183	229	252	2.5	10.0	3.5
ECOLOGY	267	320	404	432	456	435	468	448	9.8	-4.3	7.7
ENTOMOLOGY/PARASITOLOGY	510	516	543	552	658	683	708	637	5.6	-10.0	3.2
GENETICS	199	177	214	237	268	245	266	291	5.0	9.4	5.6
MICROBIOLOGY	1,260	1,301	1,385	1,499	1,335	1,314	1,346	1,482	1.1	10.1	2.3
NUTRITION	739	732	695	870	830	864	927	969	3.8	4.5	3.9
PATHOLOGY	180	206	263	276	329	308	338	309	11.1	-8.6	8.0
PHARMACOLOGY	394	416	472	477	542	598	646	699	8.6	8.2	8.5
PHYSIOLOGY	610	669	727	703	669	725	744	746	3.8	-2.4	2.9
ZOOLOGY	1,769	1,670	1,542	1,523	1,433	1,463	1,459	1,454	-3.2	-.3	-2.8
BIOSCIENCES, N.E.C.	100	95	113	127	147	213	253	266	16.7	5.1	15.0
HEALTH SCIENCES	3,207	3,349	3,369	3,597	3,684	4,180	4,652	4,574	6.1	-1.7	4.9
ANESTHESIOLOGY	46	49	3	2	6	16	13	6	-19.0	-53.8	-25.2
CANCER/ONCOLOGY	6	0	1	0	0	2	2	0	-16.7	-100.0	-100.0
CARDIOLOGY	19	0	0	1	1	0	10	5	-10.1	-50.0	-17.4
DENTISTRY	239	304	303	320	306	328	347	332	6.4	-4.3	4.8
ENDOCRINOLOGY	12	13	14	7	9	19	18	11	7.0	-38.9	-1.2
GASTROENTEROLOGY	10	3	2	2	4	0	0	2	-100.0	**	-20.5
HEMATOLOGY	7	0	1	5	5	12	7	6	.0	-14.3	-2.2
NEUROLOGY	63	79	68	80	67	100	95	107	7.1	12.6	7.9
NURSING	130	141	193	266	292	482	545	478	27.0	-12.3	20.4
OBSTETRICS/GYNECOLOGY	17	22	14	5	6	6	3	5	-25.1	66.7	-16.0
OPHTHALMOLOGY	16	12	2	2	1	3	4	6	-20.6	50.0	-13.1
OTORHINOLARYNGOLOGY	23	15	25	23	18	14	13	10	-9.1	-23.1	-11.2
PEDIATRICS	39	45	44	25	13	16	27	33	-5.9	22.2	-2.4
PHARMACEUTICAL SCIENCES	676	688	721	746	755	847	860	840	4.1	-2.3	3.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	251	196	330	289	332	356	387	499	7.5	28.9	10.3
PSYCHIATRY	31	20	23	41	48	24	8	11	-20.2	37.5	-13.8
PULMONARY DISEASE	9	1	0	3	7	1	11	5	3.4	-54.5	-8.1
RADIOLOGY	54	87	94	81	69	69	59	72	1.5	22.0	4.2
SPEECH PATHOLOGY/AUDIOLOGY	1,022	1,102	983	1,029	1,078	1,042	1,253	1,175	3.5	-6.2	2.0
SURGERY	55	78	67	58	60	46	44	47	-3.7	6.8	-2.2
VETERINARY SCIENCES	191	201	211	259	234	294	290	306	7.2	5.5	7.0
CLINICAL MEDICINE, N.E.C.	115	101	90	104	76	117	112	134	-.4	19.6	2.2
HEALTH RELATED, N.E.C.	236	192	180	249	297	386	544	484	14.9	-11.0	10.8
PSYCHOLOGY	6,870	6,944	7,335	7,494	7,423	7,444	7,849	8,595	2.2	9.5	3.3
SOCIAL SCIENCES	15,911	16,406	16,543	16,771	16,877	18,480	18,991	19,528	3.0	2.8	3.0
AGRICULTURAL ECONOMICS	617	695	750	706	651	751	759	708	3.5	-6.7	2.0
ANTHROPOLOGY	1,680	1,552	1,601	1,587	1,579	1,603	1,614	1,583	-.7	-1.9	-.8
ECONOMICS (EXCEPT AGRICULTURAL)	3,307	3,508	3,566	3,572	3,627	3,802	4,063	4,338	3.5	6.8	4.0
GEOGRAPHY	1,057	1,088	1,065	1,100	1,081	1,080	1,146	1,193	1.4	4.1	1.7
HISTORY AND PHILOSOPHY OF SCIENCE	116	130	144	135	130	122	132	120	2.2	-9.1	.5
LINGUISTICS	664	710	864	900	967	1,071	991	1,033	6.9	4.2	6.5
POLITICAL SCIENCE	3,681	3,689	3,591	3,663	3,699	4,335	4,400	4,703	3.0	6.9	3.6
SOCIOLOGY	2,567	2,524	2,618	2,637	2,499	2,564	2,628	2,682	.4	2.1	.6
SOCIOLOGY/ANTHROPOLOGY	297	369	338	356	358	360	309	333	.7	7.8	1.6
SOCIAL SCIENCES, N.E.C.	1,925	2,141	2,006	2,115	2,286	2,692	2,949	2,835	7.4	-3.9	5.7

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-17. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY OTHER OUTSIDE SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	16,376	16,852	17,680	18,229	19,265	20,039	21,114	22,276	4.3	5.5	4.5
ENGINEERING	4,352	4,535	4,887	5,191	5,373	5,672	6,238	6,823	6.2	9.4	6.6
AEROSPACE	121	144	128	138	140	109	183	222	7.1	21.3	9.1
AGRICULTURAL	111	96	136	149	159	163	210	150	11.2	-28.6	4.4
BIOMEDICAL	30	34	33	34	43	69	73	81	16.0	11.0	15.2
CHEMICAL	745	781	764	795	735	859	916	1,020	3.5	11.4	4.6
CIVIL	809	748	777	798	811	920	958	1,082	2.9	12.9	4.2
ELECTRICAL	765	825	908	1,063	1,182	1,222	1,369	1,472	10.2	7.5	9.8
ENGINEERING SCIENCE	132	83	88	116	108	65	104	105	-3.9	1.0	-3.2
INDUSTRIAL	268	404	465	422	503	487	457	354	9.3	-22.5	4.1
MECHANICAL	588	555	517	625	688	836	830	922	5.9	11.1	6.6
METALLURGICAL/MATERIALS	294	302	361	375	329	332	413	448	5.8	8.5	6.2
MINING	59	73	94	76	51	34	62	132	.8	112.9	12.2
NUCLEAR	133	194	226	223	256	231	256	247	11.5	-3.5	9.2
PETROLEUM	101	118	169	142	128	123	123	134	3.3	8.9	4.1
ENGINEERING, N.E.C.	196	178	221	235	240	222	284	454	6.4	59.9	12.7
PHYSICAL SCIENCES	1,352	1,184	1,325	1,345	1,348	1,478	1,308	1,405	-.5	7.4	.6
ASTRONOMY	39	49	34	43	29	21	34	32	-2.3	-5.9	-2.8
CHEMISTRY	937	741	812	856	866	967	846	948	-1.7	12.1	.2
PHYSICS	360	389	471	445	449	485	425	421	2.8	-.2	2.4
PHYSICAL SCIENCES, N.E.C.	16	5	8	1	4	5	3	1	-24.3	-66.7	-32.7
ENVIRONMENTAL SCIENCES	706	727	715	732	825	806	984	1,073	5.7	9.0	6.2
ATMOSPHERIC SCIENCES	52	48	50	35	35	36	35	46	-6.4	31.4	-1.7
GEOSCIENCES	451	482	493	539	598	587	731	787	8.4	7.7	8.3
OCEANOGRAPHY	133	112	116	89	103	130	140	158	.9	12.9	2.5
ENVIRONMENTAL SCIENCES, N.E.C.	70	85	56	69	89	53	78	82	1.8	5.1	2.3
MATHEMATICAL/COMPUTER SCIENCES	649	801	842	822	844	1,041	1,117	1,140	9.5	2.1	8.4
COMPUTER SCIENCE	258	331	267	295	362	482	612	624	15.5	2.0	13.4
MATHEMATICS AND APPLIED MATHEMATICS	296	359	422	394	366	419	370	401	3.8	8.4	4.4
STATISTICS	95	111	153	133	116	140	135	115	6.0	-14.8	2.8
LIFE SCIENCES	4,562	4,776	5,208	5,351	5,703	5,918	5,979	6,150	4.6	2.9	4.4
AGRICULTURAL SCIENCES	1,424	1,618	1,769	1,823	1,801	1,811	2,044	2,143	6.2	4.8	6.0
BIOLOGICAL SCIENCES	2,122	2,269	2,500	2,505	2,715	2,822	2,643	2,665	3.7	.8	3.3
ANATOMY	31	38	39	45	61	48	53	40	9.4	-24.5	3.7
BIOCHEMISTRY	234	246	267	237	242	225	226	235	-.6	4.0	.1
BIOLOGY	277	391	401	428	395	375	302	284	1.5	-6.0	.4
BIOMETRY/EPIDEMIOLOGY	50	36	58	47	55	87	91	103	10.5	13.2	10.9
BIOPHYSICS	27	32	22	39	45	29	53	32	11.9	-39.6	2.5
BOTANY	299	329	380	388	420	470	457	444	7.3	-2.8	5.8
CELL BIOLOGY	20	13	12	17	25	33	26	28	4.5	7.7	4.9
ECOLOGY	56	43	41	49	62	54	67	68	3.0	1.5	2.8
ENTOMOLOGY/PARASITOLOGY	154	217	211	215	236	278	243	294	7.9	21.0	9.7
GENETICS	78	45	57	84	61	46	80	59	.4	-26.3	-3.9
MICROBIOLOGY	215	176	197	178	233	202	189	203	-2.1	7.4	-.8
NUTRITION	310	280	364	361	410	516	450	393	6.4	-12.7	3.4
PATHOLOGY	63	80	101	84	80	109	84	121	4.9	44.0	9.8
PHARMACOLOGY	94	104	79	125	153	136	125	147	4.9	17.6	6.6
PHYSIOLOGY	84	100	96	90	112	99	76	99	-1.7	30.3	2.4
ZOOLOGY	104	131	147	105	111	75	73	74	-5.7	1.4	-4.7
BIOSCIENCES, N.E.C.	26	8	18	13	14	50	48	41	10.8	-14.6	6.7
HEALTH SCIENCES	1,016	889	939	1,023	1,187	1,285	1,292	1,342	4.1	3.9	4.1
ANESTHESIOLOGY	0	1	0	1	0	0	0	5	**	**	**
CANCER/ONCOLOGY	6	1	1	2	0	0	0	0	-100.0	**	-100.0
CARDIOLOGY	2	3	0	0	0	0	3	0	7.0	-100.0	-100.0
DENTISTRY	140	58	114	77	86	114	97	74	-5.9	-23.7	-8.7
ENDOCRINOLOGY	2	1	0	1	0	6	5	5	16.5	.0	14.0
GASTROENTEROLOGY	11	0	0	1	0	0	0	1	-100.0	**	-29.0
HEMATOLOGY	0	0	0	0	1	0	1	0	**	-100.0	**
NEUROLOGY	36	20	19	33	35	18	28	20	-4.1	-28.6	-8.1
NURSING	24	40	62	141	203	240	180	134	39.9	-25.6	27.8
OBSTETRICS/GYNECOLOGY	6	3	10	1	0	7	0	0	-100.0	**	-100.0
OPHTHALMOLOGY	7	3	0	1	0	0	1	2	-27.7	100.0	-16.4
OTORHINOLARYNGOLOGY	0	0	5	4	6	2	0	0	**	**	**
PEDIATRICS	8	4	7	6	3	1	9	7	2.0	-22.2	-1.9
PHARMACEUTICAL SCIENCES	145	149	156	150	189	165	180	226	3.7	25.6	6.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	255	261	219	208	263	244	313	293	3.5	-6.4	2.0
PSYCHIATRY	8	8	12	5	1	17	21	11	17.5	-47.6	4.7
PULMONARY DISEASE	12	1	0	0	3	0	2	1	-25.8	-50.0	-29.9
RADIOLOGY	21	17	18	19	15	17	17	14	-3.5	-17.6	-5.6
SPEECH PATHOLOGY/AUDIOLOGY	140	112	85	114	161	153	134	210	-.7	56.7	6.0
SURGERY	3	2	8	3	6	3	13	5	27.7	-61.5	7.6
VETERINARY SCIENCES	77	77	101	116	108	145	163	135	13.3	-17.2	8.4
CLINICAL MEDICINE, N.E.C.	32	27	20	20	10	16	24	20	-4.7	-16.7	-6.5
HEALTH RELATED, N.E.C.	81	101	102	120	97	137	101	179	3.7	77.2	12.0
PSYCHOLOGY	1,134	1,186	1,274	1,292	1,600	1,350	1,437	1,487	4.0	3.5	3.9
SOCIAL SCIENCES	3,621	3,643	3,429	3,496	3,572	3,774	4,051	4,198	1.9	3.6	2.1
AGRICULTURAL ECONOMICS	216	247	229	320	323	368	373	358	9.5	-4.0	7.5
ANTHROPOLOGY	227	209	216	244	194	210	192	182	-2.8	-5.2	-3.1
ECONOMICS (EXCEPT AGRICULTURAL)	744	811	976	912	938	989	974	1,027	4.6	5.4	4.7
GEOGRAPHY	134	127	169	158	147	137	203	168	7.2	-17.2	3.3
HISTORY AND PHILOSOPHY OF SCIENCE	24	25	22	23	19	12	11	20	-12.2	81.8	-2.6
LINGUISTICS	129	136	111	122	135	224	159	202	3.5	27.0	6.6
POLITICAL SCIENCE	801	694	803	707	742	719	1,064	1,060	4.8	-.4	4.1
SOCIOLOGY	493	463	399	426	360	391	369	337	-4.7	-8.7	-5.3
SOCIOLOGY/ANTHROPOLOGY	29	39	62	27	29	46	28	42	-.6	50.0	5.4
SOCIAL SCIENCES, N.E.C.	834	892	442	557	685	678	678	802	-3.2	18.3	-.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-18. -- SELF-SUPPORTED FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	55,867	68,137	68,598	68,442	66,347	67,686	69,875	70,968	3.8	1.6	3.5
ENGINEERING	9,074	12,076	10,625	10,653	10,826	11,667	12,229	13,175	5.1	7.7	5.5
AEROSPACE	127	170	171	167	164	189	165	187	4.5	13.3	5.7
AGRICULTURAL	35	69	102	114	94	101	77	111	14.0	44.2	17.9
BIOMEDICAL	227	278	265	274	279	251	230	287	.2	24.8	3.4
CHEMICAL	575	706	715	775	801	767	894	984	7.6	10.1	8.0
CIVIL	1,814	2,520	1,996	2,090	2,275	2,277	2,202	2,389	3.3	8.5	4.0
ELECTRICAL	2,334	2,615	2,464	2,561	2,403	2,616	2,871	2,814	3.5	-2.0	2.7
ENGINEERING SCIENCE	98	173	154	124	126	128	135	149	5.5	10.4	6.2
INDUSTRIAL	1,267	2,184	1,581	1,488	1,386	1,730	1,795	1,756	6.0	-2.2	4.8
MECHANICAL	1,128	1,431	1,318	1,186	1,235	1,326	1,515	1,730	5.0	14.2	6.3
METALLURGICAL/MATERIALS	167	198	190	215	223	264	197	251	2.8	27.4	6.0
MINING	70	106	117	98	98	87	60	48	-2.5	-20.0	-5.2
NUCLEAR	272	314	274	227	267	208	204	200	-4.7	-2.0	-4.3
PETROLEUM	60	34	52	26	79	56	49	83	-3.3	69.4	4.7
ENGINEERING, N.E.C.	900	1,278	1,226	1,308	1,396	1,667	1,835	2,186	12.6	19.1	13.5
PHYSICAL SCIENCES	1,702	1,842	1,691	1,602	1,424	1,415	1,362	1,363	-3.6	.1	-3.1
ASTRONOMY	69	71	62	53	53	53	37	35	-9.9	-5.4	-9.2
CHEMISTRY	758	874	799	740	732	701	689	622	-1.6	-9.7	-2.8
PHYSICS	862	874	812	785	631	650	627	691	-5.2	10.2	-3.1
PHYSICAL SCIENCES, N.E.C.	13	23	18	24	8	11	9	15	-5.9	66.7	2.1
ENVIRONMENTAL SCIENCES	2,015	2,289	2,414	2,444	2,369	2,237	2,132	2,444	.9	14.6	2.8
ATMOSPHERIC SCIENCES	93	124	100	104	105	77	87	111	-1.1	27.6	2.6
GEOSCIENCES	1,327	1,517	1,492	1,505	1,573	1,481	1,488	1,660	1.6	13.9	3.3
OCEANOGRAPHY	308	243	322	337	305	260	322	348	.7	8.1	1.8
ENVIRONMENTAL SCIENCES, N.E.C.	287	405	500	498	386	419	265	325	-1.3	22.6	1.8
MATHEMATICAL/COMPUTER SCIENCES	3,421	3,733	3,961	3,687	3,464	3,577	4,121	4,525	3.2	9.8	4.1
COMPUTER SCIENCE	1,478	1,621	1,876	1,782	1,874	2,101	2,490	2,675	9.1	7.4	8.8
MATHEMATICS AND APPLIED MATHEMATICS	1,702	1,731	1,741	1,556	1,316	1,164	1,320	1,475	-4.1	11.7	-2.0
STATISTICS	241	381	344	349	274	257	311	375	4.3	20.6	6.5
LIFE SCIENCES	14,455	17,227	18,097	18,360	18,350	17,608	17,760	18,021	3.5	1.5	3.2
AGRICULTURAL SCIENCES	2,055	2,426	2,549	2,641	2,494	2,399	2,439	2,328	2.9	-4.6	1.8
BIOLOGICAL SCIENCES	7,053	8,522	8,567	8,421	8,020	6,953	6,668	6,388	-.9	-4.2	-1.4
ANATOMY	200	242	276	234	217	152	169	149	-2.8	-11.8	-4.1
BIOCHEMISTRY	390	420	373	374	446	329	321	288	-3.2	-10.3	-4.2
BIOLOGY	2,122	2,828	2,774	2,493	2,146	1,997	1,811	1,682	-2.6	-7.1	-3.3
BIOMETRY/EPIDEMIOLOGY	170	312	308	382	383	360	389	272	14.8	-30.1	6.9
BIOPHYSICS	78	87	92	73	95	81	72	113	-1.3	56.9	5.4
BOTANY	597	607	682	753	641	528	502	411	-2.8	-18.1	-5.2
CELL BIOLOGY	38	63	44	25	30	27	33	33	-2.3	.0	-2.0
ECOLOGY	162	230	178	282	223	151	202	230	3.7	13.9	5.1
ENTOMOLOGY/PARASITOLOGY	192	305	340	311	312	223	215	213	1.9	-.9	1.5
GENETICS	129	138	162	165	138	130	84	110	-6.9	31.0	-2.3
MICROBIOLOGY	690	724	704	696	631	545	588	469	-2.6	-20.2	-5.4
NUTRITION	604	733	852	912	1,020	952	897	1,145	6.8	27.6	9.6
PATHOLOGY	253	274	284	348	380	348	292	258	2.4	-11.6	.3
PHARMACOLOGY	162	232	267	298	258	231	283	207	9.7	-26.9	3.6
PHYSIOLOGY	493	556	483	438	441	396	365	409	-4.9	12.1	-2.6
ZOOLOGY	719	744	703	574	589	417	363	345	-10.8	-5.0	-10.0
BIOSCIENCES, N.E.C.	54	27	45	63	70	86	82	54	7.2	-34.1	.0
HEALTH SCIENCES	5,347	6,279	6,981	7,298	7,836	8,256	8,953	9,305	8.4	7.5	8.2
ANESTHESIOLOGY	0	0	0	0	1	2	0	5	**	**	**
CANCER/ONCOLOGY	3	0	0	0	0	0	0	44	-100.0	**	46.8
CARDIOLOGY	0	0	0	0	0	0	0	0	**	**	**
DENTISTRY	369	516	420	466	466	547	490	495	4.8	1.0	4.3
ENDOCRINOLOGY	6	11	7	13	12	5	5	7	-3.0	40.0	2.2
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	**	**	**
HEMATOLOGY	0	3	2	2	2	2	0	0	**	**	**
NEUROLOGY	23	22	30	28	37	19	18	14	-4.0	-22.2	-6.8
NURSING	750	668	889	1,207	1,403	1,779	1,720	2,477	14.8	44.0	18.6
OBSTETRICS/GYNECOLOGY	3	5	5	2	5	2	0	3	-100.0	**	.0
OPHTHALMOLOGY	1	0	0	0	0	0	0	0	-100.0	**	-100.0
OTORHINOLARYNGOLOGY	1	7	8	15	12	0	1	0	.0	-100.0	-100.0
PEDIATRICS	58	45	30	38	37	24	26	14	-12.5	-46.2	-18.4
PHARMACEUTICAL SCIENCES	217	305	216	330	310	293	306	263	5.9	-14.1	2.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,097	1,134	1,339	1,320	1,582	1,732	1,824	1,849	8.8	1.4	7.7
PSYCHIATRY	22	55	50	40	38	28	16	18	-5.2	12.5	-2.8
PULMONARY DISEASE	1	0	0	0	0	0	0	0	-100.0	**	-100.0
RADIOLOGY	62	73	47	69	58	63	80	75	4.3	-6.3	2.8
SPEECH PATHOLOGY/AUDIOLOGY	1,821	2,566	2,853	2,617	2,628	2,438	2,616	2,456	6.2	-6.1	4.4
SURGERY	10	2	1	2	2	0	2	1	-23.5	-50.0	-28.0
VETERINARY SCIENCES	87	96	134	130	125	131	90	108	.6	20.0	3.1
CLINICAL MEDICINE, N.E.C.	97	44	50	61	63	52	56	43	-8.7	-23.2	-11.0
HEALTH RELATED, N.E.C.	719	727	900	958	1,055	1,139	1,403	1,433	11.8	2.1	10.4
PSYCHOLOGY	6,462	7,245	8,754	8,514	7,704	8,469	9,104	8,497	5.9	-6.7	4.0
SOCIAL SCIENCES	18,738	23,725	23,056	23,182	22,210	22,718	23,167	22,943	3.6	-1.0	2.9
AGRICULTURAL ECONOMICS	312	465	507	405	476	366	443	470	6.0	6.1	6.0
ANTHROPOLOGY	2,078	2,471	2,493	2,545	2,243	2,187	2,239	2,073	1.3	-7.4	*
ECONOMICS (EXCEPT AGRICULTURAL)	2,328	2,954	2,620	2,876	2,989	2,697	3,238	3,224	5.7	-.4	4.8
GEOGRAPHY	652	813	836	691	698	580	619	632	-.9	2.1	-.4
HISTORY AND PHILOSOPHY OF SCIENCE	97	89	86	85	84	85	79	70	-3.4	-11.4	-4.6
LINGUISTICS	633	974	916	655	576	625	866	777	5.4	-10.3	3.0
POLITICAL SCIENCE	5,010	7,206	6,286	6,266	5,963	6,546	5,822	6,222	2.5	6.9	3.1
SOCIOLOGY	2,019	2,189	2,290	2,040	1,489	1,683	1,831	1,604	-1.6	-12.4	-3.2
SOCIOLOGY/ANTHROPOLOGY	391	478	180	284	214	166	198	133	-10.7	-32.8	-14.7
SOCIAL SCIENCES, N.E.C.	5,218	6,086	6,842	7,335	7,478	7,783	7,832	7,738	7.0	-1.2	5.8

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-19. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-81

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL AREAS:											
TOTAL, ALL SOURCES	143,256	154,024	156,252	157,769	155,988	160,070	165,204	167,369	2.4	1.3	2.2
FEDERAL, TOTAL	33,391	33,909	34,322	35,028	35,309	36,859	36,567	35,128	1.5	-3.9	.7
DEPT OF DEFENSE	3,809	3,577	3,443	3,527	0	3,526	3,702	3,977	-.5	7.4	.6
DEPT OF HHS, TOTAL	13,400	14,402	14,126	14,366	14,519	15,361	12,786	11,944	-.8	-6.6	-1.6
NIH	7,466	7,769	7,253	6,869	6,606	7,290	7,230	7,104	-.5	-1.7	-.7
OTHER HHS	5,934	6,633	6,873	7,497	7,913	8,071	5,556	4,840	-1.1	-12.9	-2.9
NSF	5,482	5,381	5,454	5,603	5,584	5,810	5,819	5,720	1.0	-1.7	.6
ALL OTHER FEDERAL	10,700	10,549	11,299	11,532	15,206	12,162	14,260	13,487	4.9	-5.4	3.4
INSTITUTIONAL SUPPORT	57,988	59,347	60,855	61,625	60,788	62,823	65,595	67,321	2.1	2.6	2.2
OTHER OUTSIDE SUPPORT, TOTAL	11,195	11,452	11,918	12,136	13,061	13,811	14,138	15,327	4.0	8.4	4.6
ALL OTHER U.S.	8,277	8,071	7,887	7,733	13,061	8,707	8,924	9,622	1.3	7.8	2.2
FOREIGN	2,918	3,381	4,031	4,403	0	5,104	5,214	5,705	10.2	9.4	10.1
SELF-SUPPORT	40,682	49,316	49,157	48,980	46,830	46,577	48,904	49,593	3.1	1.4	2.9
ENGINEERING:											
TOTAL, ALL SOURCES	23,366	25,586	25,205	25,590	25,481	27,136	29,285	31,334	3.8	7.0	4.3
FEDERAL, TOTAL	6,917	6,859	6,846	6,990	6,912	7,088	7,343	7,208	1.0	-1.8	.4
DEPT OF DEFENSE	1,863	1,964	1,797	1,826	0	1,846	1,941	2,088	.7	7.6	.6
DEPT OF HHS, TOTAL	519	613	619	606	659	640	383	331	-4.9	-13.6	-6.2
NIH	336	360	308	259	274	236	241	215	-5.4	-10.8	-6.2
OTHER HHS	183	253	311	347	385	404	142	116	-4.1	-18.3	-6.3
NSF	1,508	1,496	1,450	1,460	1,341	1,389	1,358	1,311	-1.7	-3.5	-2.0
ALL OTHER FEDERAL	3,027	2,786	2,980	3,098	4,912	3,213	3,661	3,478	3.2	-5.0	2.0
INSTITUTIONAL SUPPORT	7,228	7,558	7,641	7,798	7,685	8,389	9,255	10,349	4.2	11.8	5.3
OTHER OUTSIDE SUPPORT, TOTAL	2,727	2,632	2,786	2,879	3,124	3,331	3,718	4,122	5.3	10.9	6.1
ALL OTHER U.S.	2,055	1,959	1,940	1,889	3,124	2,184	2,521	2,898	3.5	15.0	5.0
FOREIGN	672	673	846	990	0	1,147	1,197	1,224	10.1	2.3	8.9
SELF-SUPPORT	6,494	8,537	7,932	7,923	7,760	8,328	8,969	9,655	5.5	7.6	5.8
PHYSICAL SCIENCES:											
TOTAL, ALL SOURCES	14,947	15,101	15,333	15,453	15,264	15,445	15,820	16,084	1.0	1.7	1.1
FEDERAL, TOTAL	3,904	4,054	4,210	4,359	4,534	4,840	5,021	5,300	4.4	5.6	4.5
DEPT OF DEFENSE	426	382	371	461	0	434	467	541	1.5	15.8	3.5
DEPT OF HHS, TOTAL	707	836	906	883	880	1,057	1,083	1,060	7.4	-2.1	6.0
NIH	633	782	824	781	771	926	1,023	967	8.3	-5.5	6.2
OTHER HHS	74	54	82	102	109	131	60	93	-3.4	55.0	3.3
NSF	1,616	1,612	1,708	1,723	1,762	1,884	1,854	1,933	2.3	4.3	2.6
ALL OTHER FEDERAL	1,155	1,224	1,225	1,292	1,892	1,465	1,617	1,766	5.8	9.2	6.3
INSTITUTIONAL SUPPORT	8,901	8,844	8,913	9,015	8,725	8,483	8,853	8,796	-.1	-1.1	-.2
OTHER OUTSIDE SUPPORT, TOTAL	925	774	864	879	875	1,027	881	972	-.8	10.3	.7
ALL OTHER U.S.	778	603	621	648	875	774	641	715	-3.2	11.5	-1.2
FOREIGN	147	171	243	231	0	253	240	257	8.5	7.1	8.3
SELF-SUPPORT	1,217	1,429	1,346	1,200	1,130	1,095	1,065	1,056	-2.2	-.8	-2.0
ENVIRONMENTAL SCIENCES:											
TOTAL, ALL SOURCES	6,700	7,218	7,693	7,955	7,901	8,197	8,233	8,479	3.5	3.0	3.4
FEDERAL, TOTAL	1,938	2,013	2,171	2,301	2,323	2,674	2,563	2,290	4.8	-10.7	2.4
DEPT OF DEFENSE	360	300	292	270	0	279	247	259	-6.1	4.9	-4.6
DEPT OF HHS, TOTAL	34	71	102	166	196	183	63	50	10.8	-20.6	5.7
NIH	12	21	25	36	20	16	23	14	11.5	-39.1	2.2
OTHER HHS	22	50	77	130	176	167	40	36	10.5	-10.0	7.3
NSF	794	820	857	856	864	913	869	894	1.5	2.9	1.7
ALL OTHER FEDERAL	750	822	920	1,009	1,263	1,299	1,384	1,087	10.8	-21.5	5.4
INSTITUTIONAL SUPPORT	2,554	2,717	2,881	2,932	2,874	2,908	3,022	3,215	2.8	6.4	3.3
OTHER OUTSIDE SUPPORT, TOTAL	545	539	560	565	684	644	777	859	6.1	10.6	6.7
ALL OTHER U.S.	370	347	328	295	684	396	505	571	5.3	13.1	6.4
FOREIGN	175	192	232	270	0	248	272	288	7.6	5.9	7.4
SELF-SUPPORT	1,663	1,949	2,081	2,157	2,020	1,971	1,871	2,115	2.0	13.0	3.5
MATHEMATICAL/COMPUTER SCIENCES:											
TOTAL, ALL SOURCES	10,362	10,780	11,041	10,582	10,438	10,716	11,378	11,812	1.6	3.8	1.9
FEDERAL, TOTAL	986	884	839	859	904	1,020	1,060	1,088	1.2	2.6	1.4
DEPT OF DEFENSE	472	427	409	345	0	398	481	516	.3	7.3	1.3
DEPT OF HHS, TOTAL	98	118	124	117	125	106	83	53	-2.7	-36.1	-8.4
NIH	79	100	106	101	95	80	69	43	-2.2	-37.7	-8.3
OTHER HHS	19	18	18	16	30	26	14	10	-5.0	-28.6	-8.8
NSF	261	216	177	247	242	304	326	340	3.8	4.3	3.8
ALL OTHER FEDERAL	155	123	129	150	537	212	170	179	1.6	5.3	2.1
INSTITUTIONAL SUPPORT	6,317	6,410	6,568	6,337	6,211	6,301	6,564	6,889	.6	5.0	1.2
OTHER OUTSIDE SUPPORT, TOTAL	344	415	445	399	433	660	633	646	10.7	2.1	9.4
ALL OTHER U.S.	209	213	213	220	433	392	343	357	8.6	4.1	7.9
FOREIGN	135	202	232	179	0	268	290	289	13.6	-.3	11.5
SELF-SUPPORT	2,715	3,071	3,189	2,987	2,890	2,735	3,121	3,189	2.3	2.2	2.3

CONTINUED ON NEXT PAGE.

TABLE C-19. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-81

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
AGRICULTURAL SCIENCES:											
TOTAL, ALL SOURCES	7,392	8,251	8,787	9,040	8,983	9,069	9,358	9,344	4.0	-0.1	3.4
FEDERAL, TOTAL	1,562	1,584	1,568	1,617	1,698	1,697	1,729	1,672	1.7	-3.3	1.0
DEPT OF DEFENSE	45	15	22	15	0	16	10	11	-22.2	10.0	-18.2
DEPT OF HHS, TOTAL	92	103	83	69	82	104	123	59	5.0	-52.0	-6.1
NIH	66	75	58	50	42	69	109	53	8.7	-51.4	-3.1
OTHER HHS	26	28	25	19	40	35	14	6	-9.8	-57.1	-18.9
NSF	87	129	96	70	77	66	73	63	-2.9	-13.7	-4.5
ALL OTHER FEDERAL	1,338	1,337	1,367	1,463	1,539	1,511	1,523	1,539	2.2	1.1	2.0
INSTITUTIONAL SUPPORT	2,433	2,725	3,003	3,056	3,086	3,292	3,260	3,301	5.0	1.3	4.5
OTHER OUTSIDE SUPPORT, TOTAL	1,377	1,557	1,710	1,777	1,752	1,740	1,979	2,079	6.2	5.1	6.1
ALL OTHER U.S.	780	776	778	855	1,752	764	897	919	2.4	2.5	2.4
FOREIGN	597	781	932	922	0	976	1,082	1,160	10.4	7.2	10.0
SELF-SUPPORT	2,020	2,385	2,506	2,590	2,447	2,340	2,390	2,292	2.8	-4.1	1.8
BIOLOGICAL SCIENCES:											
TOTAL, ALL SOURCES	24,429	26,214	26,608	27,049	26,689	26,411	26,419	26,107	1.3	-1.2	1.0
FEDERAL, TOTAL	6,476	6,562	6,495	6,635	6,720	7,211	7,072	6,840	1.5	-3.3	.8
DEPT OF DEFENSE	122	96	90	88	0	93	107	66	-2.2	-38.3	-8.4
DEPT OF HHS, TOTAL	4,270	4,399	4,075	4,171	4,225	4,564	4,247	4,296	-.1	1.2	.1
NIH	3,978	4,002	3,765	3,833	3,877	4,185	3,975	4,008	•	.8	.1
OTHER HHS	292	397	310	338	348	379	272	288	-1.2	5.9	-.2
NSF	652	647	738	816	850	820	862	775	4.8	-10.1	2.5
ALL OTHER FEDERAL	1,432	1,420	1,592	1,560	1,645	1,734	1,856	1,703	4.4	-8.2	2.5
INSTITUTIONAL SUPPORT	10,761	11,191	11,559	11,956	11,762	11,736	12,219	12,163	2.1	-.5	1.8
OTHER OUTSIDE SUPPORT, TOTAL	1,666	1,793	1,957	1,951	2,092	2,253	1,982	2,033	2.9	2.6	2.9
ALL OTHER U.S.	1,229	1,299	1,343	1,262	2,092	1,393	1,239	1,186	.1	-4.3	-.5
FOREIGN	437	494	614	689	0	860	743	847	9.2	14.0	9.9
SELF-SUPPORT	5,526	6,668	6,597	6,507	6,115	5,211	5,146	5,071	-1.2	-1.5	-1.2
HEALTH SCIENCES:											
TOTAL, ALL SOURCES	11,805	13,019	13,951	14,940	15,557	16,293	16,915	16,836	6.2	-.5	5.2
FEDERAL, TOTAL	4,316	4,919	5,198	5,617	5,763	5,982	6,131	5,730	6.0	-6.5	4.1
DEPT OF DEFENSE	166	116	135	160	0	130	139	162	-2.9	16.5	-.3
DEPT OF HHS, TOTAL	3,618	4,314	4,525	4,819	5,010	5,286	4,444	4,048	3.5	-8.9	1.6
NIH	888	967	879	690	716	718	721	809	-3.4	12.2	-1.3
OTHER HHS	2,730	3,347	3,646	4,129	4,294	4,568	3,723	3,239	5.3	-13.0	2.5
NSF	46	19	32	39	42	36	33	22	-5.4	-33.3	-10.0
ALL OTHER FEDERAL	486	470	506	599	711	530	1,515	1,498	20.9	-1.1	17.4
INSTITUTIONAL SUPPORT	2,647	2,659	2,820	2,965	2,934	3,419	3,613	3,490	5.3	-3.4	4.0
OTHER OUTSIDE SUPPORT, TOTAL	793	707	725	760	865	939	913	1,001	2.4	9.6	3.4
ALL OTHER U.S.	553	486	497	503	865	630	613	724	1.7	18.1	3.9
FOREIGN	240	221	228	257	0	309	300	277	3.8	-7.7	2.1
SELF-SUPPORT	4,049	4,734	5,208	5,598	5,995	5,953	6,258	6,615	7.5	5.7	7.3
PSYCHOLOGY:											
TOTAL, ALL SOURCES	13,031	13,414	13,941	13,526	12,894	12,782	13,083	12,969	.1	-.9	-.1
FEDERAL, TOTAL	3,148	2,991	2,818	2,692	2,521	2,487	2,095	1,920	-6.6	-8.4	-6.8
DEPT OF DEFENSE	157	95	110	112	0	114	104	114	-6.6	9.6	-4.5
DEPT OF HHS, TOTAL	2,295	2,163	2,071	1,948	1,824	1,831	1,348	1,134	-8.5	-15.9	-9.6
NIH	1,045	1,017	890	842	617	754	701	631	-6.4	-10.0	-7.0
OTHER HHS	1,250	1,146	1,181	1,106	1,207	1,077	647	503	-10.4	-22.3	-12.2
NSF	181	155	113	128	137	161	193	154	1.1	-20.2	-2.3
ALL OTHER FEDERAL	515	578	524	504	560	381	450	518	-2.2	15.1	.1
INSTITUTIONAL SUPPORT	5,316	5,306	5,533	5,462	5,423	5,324	5,636	5,837	1.0	3.6	1.3
OTHER OUTSIDE SUPPORT, TOTAL	791	878	972	979	1,171	1,049	1,078	1,041	5.3	-3.4	4.0
ALL OTHER U.S.	758	823	915	901	1,171	982	1,029	996	5.2	-3.2	4.0
FOREIGN	33	55	57	78	0	67	49	45	6.8	-8.2	4.5
SELF-SUPPORT	3,776	4,239	4,618	4,393	3,779	3,922	4,274	4,171	2.1	-2.4	1.4
SOCIAL SCIENCES:											
TOTAL, ALL SOURCES	31,224	34,441	33,693	33,634	32,781	34,021	34,713	34,404	1.8	-.9	1.4
FEDERAL, TOTAL	4,144	4,043	4,177	3,958	3,934	3,860	3,553	3,080	-2.5	-13.3	-4.2
DEPT OF DEFENSE	198	182	217	250	0	216	206	220	.7	6.8	1.5
DEPT OF HHS, TOTAL	1,767	1,785	1,621	1,587	1,518	1,590	1,012	913	-8.9	-9.8	-9.0
NIH	429	445	398	277	194	306	368	364	-2.5	-1.1	-2.3
OTHER HHS	1,338	1,340	1,223	1,310	1,324	1,284	644	549	-11.5	-14.8	-11.9
NSF	337	287	283	264	269	237	251	228	-4.8	-9.2	-5.4
ALL OTHER FEDERAL	1,842	1,789	2,056	1,457	2,147	1,817	2,084	1,719	2.1	-17.5	-1.0
INSTITUTIONAL SUPPORT	11,831	11,937	11,937	12,104	12,088	12,971	13,173	13,321	1.8	1.1	1.7
OTHER OUTSIDE SUPPORT, TOTAL	2,027	2,157	1,899	1,947	2,065	2,168	2,177	2,574	1.2	18.2	3.5
ALL OTHER U.S.	1,545	1,565	1,252	1,160	2,065	1,192	1,136	1,256	-5.0	10.6	-2.9
FOREIGN	482	592	647	787	0	976	1,041	1,318	13.7	26.6	15.5
SELF-SUPPORT	13,222	16,304	15,680	15,625	14,694	15,022	15,810	15,429	3.0	-2.4	2.2

• LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-20. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-81

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL AREAS:											
TOTAL, ALL SOURCES	52,199	56,297	57,838	59,685	60,625	63,344	65,488	67,160	3.9	2.6	3.7
FEDERAL, TOTAL	14,598	14,340	14,272	15,350	15,964	16,015	16,391	15,716	1.9	-4.1	1.1
DEPT OF DEFENSE	1,738	1,507	1,355	1,466	0	1,472	1,537	1,631	-2.0	6.1	-.9
DEPT OF HHS, TOTAL	6,622	6,467	6,240	6,715	7,241	7,291	6,606	6,042	*	-8.5	-1.3
NIH	4,453	4,445	4,107	4,059	4,274	4,373	4,345	4,071	-.4	-6.3	-1.3
OTHER HHS	2,169	2,022	2,133	2,656	2,967	2,918	2,261	1,971	.7	-12.8	-1.4
NSF	3,336	3,415	3,508	3,420	3,425	3,465	3,426	3,336	.4	-2.6	.0
ALL OTHER FEDERAL	2,902	2,951	3,169	3,749	5,298	3,787	4,822	4,707	8.8	-2.4	7.2
INSTITUTIONAL SUPPORT	17,235	17,736	18,363	18,780	18,940	19,992	21,150	23,120	3.5	9.3	4.3
OTHER OUTSIDE SUPPORT, TOTAL	5,181	5,400	5,762	6,093	6,204	6,228	6,976	6,949	5.1	-.4	4.3
ALL OTHER U.S.	3,570	3,369	3,486	3,590	6,204	3,786	4,160	4,125	2.6	-.9	2.1
FOREIGN	1,611	2,031	2,276	2,503	0	2,442	2,816	2,826	9.8	.4	8.4
SELF-SUPPORT	15,185	18,821	19,441	19,462	19,517	21,109	20,971	21,375	5.5	1.9	5.0
ENGINEERING:											
TOTAL, ALL SOURCES	10,315	11,603	11,378	11,595	12,058	12,789	13,196	14,032	4.2	6.3	4.5
FEDERAL, TOTAL	3,272	3,437	3,742	3,751	3,758	3,907	3,951	3,835	3.2	-2.9	2.3
DEPT OF DEFENSE	929	860	823	912	0	817	961	990	.6	3.0	.9
DEPT OF HHS, TOTAL	365	413	435	375	397	467	326	240	-1.9	-26.4	-5.8
NIH	329	357	378	303	283	290	273	216	-3.1	-20.9	-5.8
OTHER HHS	36	56	57	72	114	177	53	24	6.7	-54.7	-5.6
NSF	986	1,079	1,119	1,052	1,003	1,027	1,057	1,037	1.2	-1.9	.7
ALL OTHER FEDERAL	992	1,085	1,365	1,412	2,358	1,596	1,607	1,568	8.4	-2.4	6.8
INSTITUTIONAL SUPPORT	2,838	2,724	2,842	2,802	2,985	3,202	3,465	3,976	3.4	14.7	4.9
OTHER OUTSIDE SUPPORT, TOTAL	1,625	1,903	2,101	2,312	2,249	2,341	2,520	2,701	7.6	7.2	7.5
ALL OTHER U.S.	1,086	1,083	1,209	1,362	2,249	1,551	1,687	1,792	7.6	6.2	7.4
FOREIGN	539	820	892	950	0	790	833	909	7.5	9.1	7.8
SELF-SUPPORT	2,580	3,539	2,693	2,730	3,066	3,339	3,260	3,520	4.0	8.0	4.5
PHYSICAL SCIENCES:											
TOTAL, ALL SOURCES	6,308	6,216	6,290	6,348	6,280	6,337	6,461	6,550	.4	1.4	.5
FEDERAL, TOTAL	2,252	2,202	2,199	2,276	2,465	2,577	2,669	2,640	2.9	-1.1	2.3
DEPT OF DEFENSE	218	205	171	156	0	212	229	255	.8	11.4	2.3
DEPT OF HHS, TOTAL	450	440	448	446	527	527	544	455	3.2	-16.4	.2
NIH	406	424	419	406	505	487	513	441	4.0	-14.0	1.2
OTHER HHS	44	16	29	40	22	40	31	14	-5.7	-54.8	-15.1
NSF	1,015	992	1,046	1,036	1,054	1,072	1,024	1,094	.1	6.8	1.1
ALL OTHER FEDERAL	569	565	534	638	884	766	872	836	7.4	-4.1	5.7
INSTITUTIONAL SUPPORT	3,144	3,191	3,285	3,204	3,048	2,989	3,068	3,170	-.4	3.3	.1
OTHER OUTSIDE SUPPORT, TOTAL	427	410	461	466	473	451	427	433	.0	1.4	.2
ALL OTHER U.S.	319	305	328	305	473	310	308	326	-.6	5.8	.3
FOREIGN	108	105	133	161	0	141	119	107	1.6	-10.1	-.1
SELF-SUPPORT	485	413	345	402	294	320	297	307	-7.8	3.4	-6.3
ENVIRONMENTAL SCIENCES:											
TOTAL, ALL SOURCES	1,635	1,645	1,663	1,668	1,735	1,627	1,710	1,768	.8	3.4	1.1
FEDERAL, TOTAL	623	610	626	626	691	649	688	574	1.7	-16.6	-1.2
DEPT OF DEFENSE	97	68	65	59	0	45	46	45	-11.7	-2.2	-10.4
DEPT OF HHS, TOTAL	15	10	16	28	31	37	5	5	-16.7	.0	-14.5
NIH	10	9	9	4	2	2	2	3	-23.5	50.0	-15.8
OTHER HHS	5	1	7	24	29	35	3	2	-8.2	-33.3	-12.3
NSF	316	324	337	341	378	357	369	303	2.6	-17.9	-.6
ALL OTHER FEDERAL	195	208	208	198	282	210	268	221	5.4	-17.5	1.8
INSTITUTIONAL SUPPORT	499	507	549	588	554	550	554	651	1.8	17.5	3.9
OTHER OUTSIDE SUPPORT, TOTAL	161	188	155	167	141	162	207	214	4.3	3.4	4.1
ALL OTHER U.S.	109	125	87	106	141	100	136	136	3.8	.0	3.2
FOREIGN	52	63	68	61	0	62	71	78	5.3	9.9	6.0
SELF-SUPPORT	352	340	333	287	349	266	261	329	-4.9	26.1	-1.0
MATHEMATICAL/COMPUTER SCIENCES:											
TOTAL, ALL SOURCES	3,377	3,345	3,484	3,393	3,252	3,461	3,875	4,312	2.3	11.3	3.6
FEDERAL, TOTAL	594	552	583	575	564	607	657	630	1.7	-4.1	.8
DEPT OF DEFENSE	190	147	174	171	0	210	140	212	-5.0	51.4	1.6
DEPT OF HHS, TOTAL	40	50	27	25	35	35	39	28	-.4	-28.2	-5.0
NIH	29	31	25	21	23	22	31	25	1.1	-19.4	-2.1
OTHER HHS	11	19	2	4	12	13	8	3	-5.2	-62.5	-16.9
NSF	295	282	303	295	295	280	267	263	-1.6	-1.5	-1.6
ALL OTHER FEDERAL	69	73	79	84	234	82	211	127	20.5	-39.8	9.1
INSTITUTIONAL SUPPORT	1,772	1,745	1,732	1,695	1,703	1,636	1,734	1,852	-.4	6.8	.6
OTHER OUTSIDE SUPPORT, TOTAL	305	386	397	423	411	381	484	494	8.0	2.1	7.1
ALL OTHER U.S.	158	183	182	199	411	201	304	274	11.5	-9.9	8.2
FOREIGN	147	203	215	224	0	180	180	220	3.4	22.2	5.9
SELF-SUPPORT	706	662	772	700	574	837	1,000	1,336	6.0	33.6	9.5

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TABLE C-20. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-81

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
AGRICULTURAL SCIENCES:											
TOTAL, ALL SOURCES	214	240	243	249	261	301	284	279	4.8	-1.8	3.9
FEDERAL, TOTAL	43	38	47	48	53	55	56	49	4.5	-12.5	1.9
DEPT OF DEFENSE	1	0	0	0	0	0	1	0	.0	-100.0	-100.0
DEPT OF HHS, TOTAL	2	0	0	0	3	0	1	0	-10.9	-100.0	-100.0
NIH	2	0	0	0	1	0	1	0	-10.9	-100.0	-100.0
OTHER HHS	0	0	0	0	2	0	0	0	**	**	**
NSF	7	4	9	5	9	8	9	7	4.3	-22.2	.0
ALL OTHER FEDERAL	33	34	38	43	41	47	45	42	5.3	-6.7	3.5
INSTITUTIONAL SUPPORT	89	100	94	104	112	116	114	130	4.2	14.0	5.6
OTHER OUTSIDE SUPPORT, TOTAL	47	61	59	46	49	71	65	64	5.6	-1.5	4.5
ALL OTHER U.S.	24	34	21	18	49	36	24	31	.0	29.2	3.7
FOREIGN	23	27	38	28	0	35	41	33	10.1	-19.5	5.3
SELF-SUPPORT	35	41	43	51	47	59	49	36	5.8	-26.5	.4
BIOLOGICAL SCIENCES:											
TOTAL, ALL SOURCES	7,751	8,341	8,635	8,767	8,878	8,940	8,851	8,747	2.2	-1.2	1.7
FEDERAL, TOTAL	3,129	3,339	3,218	3,243	3,351	3,520	3,523	3,506	2.0	-.5	1.6
DEPT OF DEFENSE	45	43	39	41	0	25	42	30	-1.1	-28.6	-5.6
DEPT OF HHS, TOTAL	2,740	2,880	2,680	2,690	2,789	2,950	2,918	2,833	1.1	-2.9	.5
NIH	2,561	2,685	2,483	2,570	2,618	2,765	2,799	2,690	1.5	-3.9	.7
OTHER HHS	179	195	197	120	171	185	119	143	-6.6	20.2	-3.2
NSF	234	273	302	313	343	316	305	304	4.5	-.3	3.8
ALL OTHER FEDERAL	110	143	197	199	219	229	258	339	15.3	31.4	17.4
INSTITUTIONAL SUPPORT	2,639	2,672	2,904	3,056	2,999	3,109	3,145	3,292	3.0	4.7	3.2
OTHER OUTSIDE SUPPORT, TOTAL	456	476	543	554	623	569	661	632	6.4	-4.4	4.8
ALL OTHER U.S.	307	345	396	391	623	372	458	446	6.9	-2.6	5.5
FOREIGN	149	131	147	163	0	197	203	186	5.3	-8.4	3.2
SELF-SUPPORT	1,527	1,854	1,970	1,914	1,905	1,742	1,522	1,317	-.1	-13.5	-2.1
HEALTH SCIENCES:											
TOTAL, ALL SOURCES	3,416	3,547	3,769	4,401	4,957	5,568	6,013	6,204	9.9	3.2	8.9
FEDERAL, TOTAL	1,275	1,130	1,233	1,806	2,044	2,158	2,200	2,089	9.5	-5.0	7.3
DEPT OF DEFENSE	80	31	15	29	0	42	38	38	-11.7	.0	-10.1
DEPT OF HHS, TOTAL	1,078	991	1,128	1,647	1,774	1,925	1,782	1,592	8.7	-10.7	5.7
NIH	413	306	239	250	226	249	236	286	-8.9	21.2	-5.1
OTHER HHS	665	685	889	1,397	1,548	1,676	1,546	1,306	15.1	-15.5	10.1
NSF	13	14	12	9	15	15	16	14	3.5	-12.5	1.1
ALL OTHER FEDERAL	104	94	78	121	255	176	364	445	23.2	22.3	23.1
INSTITUTIONAL SUPPORT	620	690	549	632	750	761	1,039	1,084	9.0	4.3	8.3
OTHER OUTSIDE SUPPORT, TOTAL	223	182	214	263	322	346	379	341	9.2	-10.0	6.3
ALL OTHER U.S.	161	124	140	150	322	146	159	136	-.2	-14.5	-2.4
FOREIGN	62	58	74	113	0	200	220	205	23.5	-6.8	18.6
SELF-SUPPORT	1,298	1,545	1,773	1,700	1,841	2,303	2,395	2,690	10.7	12.3	11.0
PSYCHOLOGY:											
TOTAL, ALL SOURCES	5,858	6,282	7,490	7,699	7,754	7,913	8,491	8,501	6.4	.1	5.5
FEDERAL, TOTAL	1,275	1,330	1,250	1,233	1,400	945	1,089	971	-2.6	-10.8	-3.8
DEPT OF DEFENSE	36	39	30	45	0	36	23	25	-7.2	8.7	-5.1
DEPT OF HHS, TOTAL	974	965	901	874	1,074	650	522	498	-9.9	-4.6	-9.1
NIH	432	409	377	335	466	321	308	266	-5.5	-13.6	-6.7
OTHER HHS	542	556	524	539	608	329	214	232	-14.3	8.4	-11.4
NSF	93	115	99	98	85	93	88	89	-.9	1.1	-.6
ALL OTHER FEDERAL	172	211	220	216	241	166	456	359	17.6	-21.3	11.1
INSTITUTIONAL SUPPORT	1,554	1,638	1,802	2,032	2,000	2,120	2,213	2,758	6.1	24.6	8.5
OTHER OUTSIDE SUPPORT, TOTAL	343	308	302	313	429	301	359	446	.8	24.2	3.8
ALL OTHER U.S.	325	281	275	285	429	255	292	416	-1.8	42.5	3.6
FOREIGN	18	27	27	28	0	46	67	30	24.5	-55.2	7.6
SELF-SUPPORT	2,686	3,006	4,136	4,121	3,925	4,547	4,830	4,326	10.3	-10.4	7.0
SOCIAL SCIENCES:											
TOTAL, ALL SOURCES	13,325	15,078	14,886	15,565	15,450	16,408	16,607	16,767	3.7	1.0	3.3
FEDERAL, TOTAL	2,135	1,702	1,374	1,792	1,638	1,597	1,558	1,422	-5.1	-8.7	-5.6
DEPT OF DEFENSE	142	114	38	53	0	85	57	36	-14.1	-36.8	-17.8
DEPT OF HHS, TOTAL	958	718	605	630	611	700	469	391	-11.2	-16.6	-12.0
NIH	271	224	177	170	150	237	182	144	-6.4	-20.9	-8.6
OTHER HHS	687	494	428	460	461	463	287	247	-13.5	-13.9	-13.6
NSF	377	332	281	271	243	297	291	225	-4.2	-22.7	-7.1
ALL OTHER FEDERAL	658	538	450	838	784	515	741	770	2.0	3.9	2.3
INSTITUTIONAL SUPPORT	4,080	4,469	4,606	4,667	4,789	5,509	5,818	6,207	6.1	6.7	6.2
OTHER OUTSIDE SUPPORT, TOTAL	1,594	1,486	1,530	1,549	1,507	1,606	1,874	1,624	2.7	-13.3	.3
ALL OTHER U.S.	1,081	889	848	774	1,507	815	792	566	-5.1	-28.5	-8.8
FOREIGN	513	597	682	775	0	791	1,082	1,058	13.2	-2.2	10.9
SELF-SUPPORT	5,516	7,421	7,376	7,557	7,516	7,696	7,357	7,514	4.9	2.1	4.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-21. -- MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-77 AND 1979-81 1/

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL AREAS:										
TOTAL, ALL SOURCES	149,177	158,099	156,258	154,304	152,339	154,740	155,371	.8	0.4	.6
FEDERAL, TOTAL	36,973	36,237	35,698	35,883	36,471	36,030	34,570	-.4	-4.1	-1.0
DEPT OF DEFENSE	5,242	4,837	4,514	4,651	4,584	4,774	5,126	-1.5	7.4	-.3
DEPT OF HHS, TOTAL	12,281	12,252	11,263	10,882	11,359	9,627	8,911	-4.0	-7.4	-4.5
NIH	8,510	8,581	7,886	7,500	7,619	7,470	7,060	-2.1	-5.5	-2.6
OTHER HHS	3,771	3,671	3,377	3,382	3,740	2,157	1,851	-8.9	-14.2	-9.7
NSF	7,796	7,680	7,858	7,785	7,775	7,679	7,422	-.3	-3.3	-.7
ALL OTHER FEDERAL	11,654	11,468	12,063	12,565	12,753	13,950	13,111	3.0	-6.0	1.7
INSTITUTIONAL SUPPORT	58,309	58,789	59,274	58,823	58,203	60,045	61,653	.5	2.7	.8
OTHER OUTSIDE SUPPORT, TOTAL	13,826	13,967	14,698	14,779	15,705	16,428	17,438	2.9	6.1	3.4
ALL OTHER U.S.	9,756	9,097	9,012	8,685	9,182	9,594	10,135	-.3	5.6	.5
FOREIGN	4,070	4,870	5,686	6,094	6,523	6,834	7,303	9.0	6.9	8.7
SELF-SUPPORT	40,069	49,106	46,588	44,819	41,960	42,237	41,710	.9	-1.2	.6
ENGINEERING:										
TOTAL, ALL SOURCES	32,322	35,308	34,527	34,762	36,345	38,433	40,594	2.9	5.6	3.3
FEDERAL, TOTAL	9,875	9,936	10,123	10,179	10,205	10,416	10,145	.9	-2.6	.4
DEPT OF DEFENSE	2,745	2,771	2,558	2,656	2,580	2,761	2,943	.1	6.6	1.0
DEPT OF HHS, TOTAL	844	950	971	901	942	580	461	-6.1	-20.5	-8.3
NIH	637	667	630	520	454	429	368	-6.4	-14.2	-7.5
OTHER HHS	207	283	341	381	488	151	93	-5.1	-38.4	-10.8
NSF	2,424	2,494	2,467	2,389	2,260	2,247	2,167	-1.3	-3.6	-1.6
ALL OTHER FEDERAL	3,862	3,721	4,127	4,233	4,423	4,828	4,574	3.8	-5.3	2.4
INSTITUTIONAL SUPPORT	9,594	9,695	9,882	9,864	10,458	11,457	12,813	3.0	11.8	4.2
OTHER OUTSIDE SUPPORT, TOTAL	4,193	4,322	4,622	4,892	5,236	5,696	6,211	5.2	9.0	5.8
ALL OTHER U.S.	3,012	2,883	2,952	3,022	3,384	3,755	4,188	3.7	11.5	4.8
FOREIGN	1,181	1,439	1,670	1,870	1,852	1,941	2,023	8.6	4.2	8.0
SELF-SUPPORT	8,660	11,355	9,900	9,827	10,446	10,864	11,425	3.9	5.2	4.0
PHYSICAL SCIENCES:										
TOTAL, ALL SOURCES	18,721	18,637	18,707	18,750	18,455	18,750	18,790	*	.2	.1
FEDERAL, TOTAL	5,609	5,649	5,746	5,879	6,477	6,679	6,798	3.0	1.8	2.8
DEPT OF DEFENSE	607	555	507	565	576	637	723	.8	13.5	2.5
DEPT OF HHS, TOTAL	985	1,079	1,121	1,086	1,262	1,314	1,195	4.9	-9.1	2.8
NIH	888	1,024	1,022	961	1,137	1,246	1,107	5.8	-11.2	3.2
OTHER HHS	97	55	99	125	125	68	88	-5.7	29.4	-1.4
NSF	2,418	2,348	2,526	2,478	2,631	2,544	2,608	.9	2.5	1.1
ALL OTHER FEDERAL	1,599	1,667	1,592	1,750	2,008	2,184	2,272	5.3	4.0	5.1
INSTITUTIONAL SUPPORT	10,430	10,307	10,333	10,322	9,504	9,787	9,689	-1.1	-1.0	-1.0
OTHER OUTSIDE SUPPORT, TOTAL	1,178	1,041	1,149	1,181	1,271	1,102	1,176	-1.1	6.7	*
ALL OTHER U.S.	947	789	808	835	926	801	861	-2.8	7.5	-1.4
FOREIGN	231	252	341	346	345	301	315	4.5	4.7	4.5
SELF-SUPPORT	1,504	1,640	1,479	1,368	1,203	1,182	1,127	-3.9	-4.7	-4.0
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL SOURCES	7,303	7,646	7,867	7,971	7,755	7,700	7,850	.9	1.9	1.0
FEDERAL, TOTAL	2,314	2,339	2,453	2,480	2,683	2,573	2,204	1.8	-14.3	-.7
DEPT OF DEFENSE	423	350	331	301	283	256	259	-8.0	1.2	-6.8
DEPT OF HHS, TOTAL	45	70	104	160	152	42	34	-1.1	-19.0	-3.9
NIH	19	25	30	31	14	17	11	-1.8	-35.3	-7.5
OTHER HHS	26	45	74	129	138	25	23	-.7	-8.0	-1.7
NSF	981	986	1,031	1,009	1,029	978	915	-.1	-6.4	-1.0
ALL OTHER FEDERAL	865	933	987	1,010	1,219	1,297	996	7.0	-23.2	2.0
INSTITUTIONAL SUPPORT	2,584	2,689	2,750	2,790	2,622	2,681	2,871	.6	7.1	1.5
OTHER OUTSIDE SUPPORT, TOTAL	653	652	633	639	678	814	878	3.7	7.9	4.3
ALL OTHER U.S.	438	412	351	334	390	504	549	2.4	8.9	3.3
FOREIGN	215	240	282	305	288	310	329	6.3	6.1	6.3
SELF-SUPPORT	1,752	1,966	2,031	2,062	1,772	1,632	1,897	-1.2	16.2	1.1
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL SOURCES	11,215	11,413	11,634	11,180	11,285	11,883	12,305	1.0	3.6	1.3
FEDERAL, TOTAL	1,427	1,287	1,273	1,293	1,427	1,499	1,503	.8	.3	.7
DEPT OF DEFENSE	629	547	544	485	559	580	675	-1.3	16.4	1.0
DEPT OF HHS, TOTAL	113	138	125	120	105	91	69	-3.5	-24.2	-6.8
NIH	87	107	107	101	83	79	62	-1.6	-21.5	-4.7
OTHER HHS	26	31	18	19	22	12	7	-12.1	-41.7	-17.1
NSF	495	436	422	485	508	509	512	.5	.6	.5
ALL OTHER FEDERAL	190	166	182	203	255	319	247	9.0	-22.6	3.8
INSTITUTIONAL SUPPORT	6,443	6,394	6,480	6,241	6,199	6,424	6,571	*	2.3	.3
OTHER OUTSIDE SUPPORT, TOTAL	544	674	707	702	835	905	939	8.9	3.8	8.1
ALL OTHER U.S.	289	307	308	344	460	515	506	10.1	-1.7	8.3
FOREIGN	255	367	399	358	375	390	433	7.3	11.0	7.9
SELF-SUPPORT	2,801	3,058	3,174	2,944	2,824	3,055	3,292	1.5	7.8	2.3

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TABLE C-21. -- MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-77 AND 1979-81 1/

- CONTINUED

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
AGRICULTURAL SCIENCES:										
TOTAL, ALL SOURCES	6,736	7,367	7,609	7,566	7,262	7,347	7,387	1.5	0.5	1.3
FEDERAL, TOTAL	1,453	1,435	1,387	1,369	1,409	1,371	1,323	-1.0	-3.5	-1.3
DEPT OF DEFENSE	43	13	20	12	14	10	9	-21.6	-10.0	-20.0
DEPT OF HHS, TOTAL	77	84	62	54	72	79	36	.4	-54.4	-10.3
NIH	57	66	45	42	53	74	35	4.4	-52.7	-6.7
OTHER HHS	20	18	17	12	19	5	1	-20.6	-80.0	-24.8
NSF	90	116	90	59	50	67	57	-4.8	-14.9	-6.3
ALL OTHER FEDERAL	1,243	1,222	1,215	1,244	1,273	1,215	1,221	-.4	.5	-.3
INSTITUTIONAL SUPPORT	2,222	2,410	2,539	2,502	2,550	2,484	2,480	1.9	-.2	1.6
OTHER OUTSIDE SUPPORT, TOTAL	1,338	1,463	1,605	1,615	1,594	1,760	1,856	4.7	5.5	4.8
ALL OTHER U.S.	731	698	690	736	664	722	750	-.2	3.9	.4
FOREIGN	607	765	915	879	930	1,038	1,106	9.4	6.6	8.9
SELF-SUPPORT	1,723	2,059	2,078	2,080	1,709	1,732	1,728	.1	-.2	*
BIOLOGICAL SCIENCES:										
TOTAL, ALL SOURCES	23,032	24,528	24,312	24,042	22,701	22,277	21,696	-.6	-2.6	-.9
FEDERAL, TOTAL	6,921	6,983	6,793	6,730	7,008	6,835	6,668	-.2	-2.4	-.5
DEPT OF DEFENSE	141	122	108	103	88	103	78	-5.1	-24.3	-8.1
DEPT OF HHS, TOTAL	4,895	5,002	4,576	4,586	4,814	4,549	4,537	-1.2	-.3	-1.1
NIH	4,597	4,663	4,290	4,364	4,513	4,347	4,257	-.9	-2.1	-1.1
OTHER HHS	298	339	286	222	301	202	280	-6.3	38.6	-.9
NSF	650	665	748	784	783	791	736	3.3	-7.0	1.8
ALL OTHER FEDERAL	1,235	1,194	1,361	1,257	1,323	1,392	1,317	2.0	-5.4	.9
INSTITUTIONAL SUPPORT	9,495	9,699	9,874	10,086	9,557	9,707	9,443	.4	-2.7	-.1
OTHER OUTSIDE SUPPORT, TOTAL	1,638	1,776	1,903	1,848	1,578	1,832	1,914	1.9	4.5	2.2
ALL OTHER U.S.	1,153	1,244	1,269	1,153	1,153	1,087	1,086	-1.0	-.1	-.9
FOREIGN	485	532	634	695	825	745	828	7.4	11.1	7.9
SELF-SUPPORT	4,978	6,070	5,742	5,378	4,158	3,903	3,671	-4.0	-5.9	-4.3
HEALTH SCIENCES:										
TOTAL, ALL SOURCES	7,837	7,973	7,475	7,496	7,646	7,789	7,473	-.1	-4.0	-.7
FEDERAL, TOTAL	2,571	2,428	2,127	2,099	2,353	2,297	2,050	-1.9	-10.8	-3.2
DEPT OF DEFENSE	189	148	118	142	113	122	123	-7.0	.8	-6.0
DEPT OF HHS, TOTAL	1,975	1,984	1,697	1,553	1,849	1,567	1,392	-3.8	-11.2	-4.9
NIH	965	918	772	639	636	585	584	-8.0	-.2	-6.9
OTHER HHS	1,010	1,066	925	914	1,213	982	808	-.5	-17.7	-3.1
NSF	53	24	33	37	29	31	21	-8.6	-32.3	-12.4
ALL OTHER FEDERAL	354	302	279	367	362	577	514	8.5	-10.9	5.5
INSTITUTIONAL SUPPORT	2,099	2,035	2,033	2,032	2,046	2,190	2,107	.7	-3.8	.1
OTHER OUTSIDE SUPPORT, TOTAL	735	605	640	616	687	730	745	-.1	2.1	.2
ALL OTHER U.S.	522	411	422	378	343	387	399	-4.9	3.1	-3.8
FOREIGN	213	194	218	238	344	343	346	8.3	.9	7.2
SELF-SUPPORT	2,432	2,905	2,675	2,749	2,560	2,572	2,577	.9	.2	.8
PSYCHOLOGY:										
TOTAL, ALL SOURCES	11,460	11,371	12,188	11,581	10,593	10,619	10,146	-1.3	-4.5	-1.7
FEDERAL, TOTAL	2,659	2,449	2,282	2,170	1,798	1,565	1,418	-8.5	-9.4	-8.6
DEPT OF DEFENSE	156	110	106	122	106	86	96	-9.4	11.6	-6.7
DEPT OF HHS, TOTAL	1,896	1,686	1,568	1,455	1,220	878	750	-12.0	-14.6	-12.4
NIH	873	760	697	612	512	488	425	-9.2	-12.9	-9.8
OTHER HHS	1,023	926	871	843	708	390	325	-14.8	-16.7	-15.1
NSF	170	174	141	149	141	156	124	-1.4	-20.5	-4.4
ALL OTHER FEDERAL	437	479	467	444	331	445	448	.3	.7	.4
INSTITUTIONAL SUPPORT	4,134	4,145	4,195	4,180	3,899	3,925	4,080	-.9	3.9	-.2
OTHER OUTSIDE SUPPORT, TOTAL	764	717	745	719	722	717	770	-1.1	7.4	.1
ALL OTHER U.S.	732	666	697	653	654	650	736	-2.0	13.2	.1
FOREIGN	32	51	48	66	68	67	34	13.1	-49.3	.9
SELF-SUPPORT	3,903	4,060	4,966	4,512	4,174	4,412	3,878	2.1	-12.1	-.1
SOCIAL SCIENCES:										
TOTAL, ALL SOURCES	30,551	33,856	31,939	30,956	30,297	29,942	29,124	-.3	-2.7	-.7
FEDERAL, TOTAL	4,144	3,731	3,514	3,684	3,111	2,795	2,461	-6.4	-11.9	-7.2
DEPT OF DEFENSE	309	251	222	265	265	219	220	-5.6	.5	-4.7
DEPT OF HHS, TOTAL	1,451	1,259	1,039	967	943	527	437	-15.5	-17.1	-15.8
NIH	387	351	293	230	217	205	211	-10.0	2.9	-8.3
OTHER HHS	1,064	908	746	737	726	322	226	-18.1	-29.8	-19.9
NSF	515	437	400	395	344	356	282	-6.0	-20.8	-8.2
ALL OTHER FEDERAL	1,869	1,784	1,853	2,057	1,559	1,693	1,522	-1.6	-10.1	-2.9
INSTITUTIONAL SUPPORT	11,308	11,415	11,188	10,806	11,368	11,390	11,599	.1	1.8	.4
OTHER OUTSIDE SUPPORT, TOTAL	2,783	2,717	2,694	2,567	2,704	2,872	2,949	.5	2.7	.8
ALL OTHER U.S.	1,932	1,687	1,515	1,230	1,208	1,173	1,060	-8.0	-9.6	-8.2
FOREIGN	851	1,030	1,179	1,337	1,496	1,699	1,889	12.2	11.2	12.1
SELF-SUPPORT	12,316	15,993	14,543	13,899	13,114	12,885	12,115	.8	-6.0	-.2

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-22. -- FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-77 AND 1979-81 1/

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL AREAS:										
TOTAL, ALL SOURCES	46,278	52,222	57,832	63,150	71,075	75,952	79,158	8.6	4.2	8.0
FEDERAL, TOTAL	11,016	12,012	12,896	14,495	16,403	16,928	16,274	7.4	-3.9	5.7
DEPT OF DEFENSE	305	247	284	342	414	465	482	7.3	3.7	6.8
DEPT OF HHS, TOTAL	7,741	8,617	9,103	10,199	11,293	9,765	9,075	3.9	-7.1	2.3
NIH	3,409	3,633	3,474	3,428	4,044	4,105	4,115	3.1	.2	2.7
OTHER HHS	4,332	4,984	5,629	6,771	7,249	5,660	4,960	4.6	-12.4	2.0
NSF	1,022	1,116	1,104	1,238	1,500	1,566	1,634	7.4	4.3	6.9
ALL OTHER FEDERAL	1,948	2,032	2,405	2,716	3,196	5,132	5,083	17.5	-1.0	14.7
INSTITUTIONAL SUPPORT	16,914	18,294	19,944	21,582	24,612	26,700	28,788	7.9	7.8	7.9
OTHER OUTSIDE SUPPORT, TOTAL	2,550	2,885	2,982	3,450	4,334	4,686	4,838	10.7	3.2	9.6
ALL OTHER U.S.	2,091	2,343	2,361	2,638	3,311	3,490	3,610	8.9	3.4	8.1
FOREIGN	459	542	621	812	1,023	1,196	1,228	17.3	2.7	15.1
SELF-SUPPORT	15,798	19,031	22,010	23,623	25,726	27,638	29,258	9.8	5.9	9.2
ENGINEERING:										
TOTAL, ALL SOURCES	1,359	1,881	2,056	2,423	3,580	4,048	4,772	20.0	17.9	19.7
FEDERAL, TOTAL	314	360	465	562	790	878	898	18.7	2.3	16.2
DEPT OF DEFENSE	47	53	62	82	83	141	135	20.1	-4.3	16.3
DEPT OF HHS, TOTAL	40	76	83	80	165	129	110	21.5	-14.7	15.5
NIH	28	50	56	42	72	85	63	20.3	-25.9	12.3
OTHER HHS	12	26	27	38	93	44	47	24.2	6.8	21.5
NSF	70	81	102	123	156	168	181	15.7	7.7	14.5
ALL OTHER FEDERAL	157	150	218	277	386	440	472	18.7	7.3	17.0
INSTITUTIONAL SUPPORT	472	587	601	736	1,133	1,263	1,512	17.8	19.7	18.1
OTHER OUTSIDE SUPPORT, TOTAL	159	213	265	299	436	542	612	22.7	12.9	21.2
ALL OTHER U.S.	129	159	197	229	351	453	502	23.3	10.8	21.4
FOREIGN	30	54	68	70	85	89	110	19.9	23.6	20.4
SELF-SUPPORT	414	721	725	826	1,221	1,365	1,750	22.0	28.2	22.9
PHYSICAL SCIENCES:										
TOTAL, ALL SOURCES	2,534	2,680	2,916	3,051	3,327	3,531	3,844	5.7	8.9	6.1
FEDERAL, TOTAL	547	607	663	756	940	1,01	1,142	10.8	13.0	11.1
DEPT OF DEFENSE	37	32	35	52	70	5	73	8.1	23.7	10.2
DEPT OF HHS, TOTAL	172	197	233	243	322	313	320	10.5	2.2	9.3
NIH	151	182	221	226	276	29	301	11.5	3.8	10.4
OTHER HHS	21	15	12	17	46	2	19	1.	-17.4	-1.4
NSF	213	256	228	281	325	33	419	7.8	25.4	10.1
ALL OTHER FEDERAL	125	122	167	180	223	305	330	16.0	8.2	14.9
INSTITUTIONAL SUPPORT	1,615	1,728	1,865	1,897	1,968	2,134	2,237	4.8	4.8	4.
OTHER OUTSIDE SUPPORT, TOTAL	174	143	176	164	207	206	229	2.9	11.2	4.0
ALL OTHER U.S.	150	119	141	118	158	148	180	-.2	21.6	2.6
FOREIGN	24	24	35	46	49	58	49	15.8	-15.5	10.7
SELF-SUPPORT	198	202	212	234	212	180	236	-1.6	31.1	2.5
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL SOURCES	1,032	1,217	1,489	1,652	2,069	2,243	2,397	13.8	6.9	12.8
FEDERAL, TOTAL	247	284	344	447	640	678	660	18.3	-2.7	15.1
DEPT OF DEFENSE	34	18	26	28	41	37	45	1.4	21.6	4.1
DEPT OF HHS, TOTAL	4	11	14	34	68	26	21	36.6	-19.2	26.7
NIH	3	5	4	9	4	8	6	17.8	-25.0	10.4
OTHER HHS	1	6	10	25	64	18	15	61.9	-16.7	47.2
NSF	129	158	163	188	241	260	282	12.4	8.5	11.8
ALL OTHER FEDERAL	80	97	141	197	290	355	312	28.2	-12.1	21.5
INSTITUTIONAL SUPPORT	469	535	680	730	836	895	995	11.4	11.2	11.3
OTHER OUTSIDE SUPPORT, TOTAL	53	75	82	93	128	170	195	21.4	14.7	20.5
ALL OTHER U.S.	41	60	64	67	106	137	158	22.3	15.3	21.3
FOREIGN	12	15	18	26	22	33	37	18.4	12.1	17.5
SELF-SUPPORT	263	323	383	382	465	500	547	11.3	9.4	11.0
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL SOURCES	2,524	2,712	2,891	2,795	2,892	3,370	3,819	4.9	13.3	6.1
FEDERAL, TOTAL	153	149	149	141	200	218	215	6.1	-1.4	5.0
DEPT OF DEFENSE	33	27	39	31	49	41	53	3.7	29.3	7.0
DEPT OF HHS, TOTAL	25	30	26	22	36	31	12	3.7	-61.3	-10.0
NIH	21	24	24	21	19	21	6	.0	-71.4	-16.4
OTHER HHS	4	6	2	1	17	10	6	16.5	-40.0	6.0
NSF	61	62	58	57	76	84	91	5.5	8.3	5.9
ALL OTHER FEDERAL	34	30	26	31	39	62	59	10.5	-4.8	8.2
INSTITUTIONAL SUPPORT	1,646	1,761	1,820	1,791	1,738	1,874	2,170	2.2	15.8	4.0
OTHER OUTSIDE SUPPORT, TOTAL	105	127	135	120	206	212	201	12.4	-5.2	9.7
ALL OTHER U.S.	78	89	87	75	133	132	125	9.2	-5.3	7.0
FOREIGN	27	38	48	45	73	80	76	19.8	-5.0	15.9
SELF-SUPPORT	620	675	787	743	748	1,066	1,233	9.5	15.7	10.3

CONTINUED ON NEXT PAGE.

TABLE C-22. -- FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1974-77 AND 1979-81 1/

- CONTINUED

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
AGRICULTURAL SCIENCES:										
TOTAL, ALL SOURCES	870	1,124	1,421	1,723	2,108	2,295	2,236	17.5	-2.6	14.4
FEDERAL, TOTAL	152	187	228	296	343	414	398	18.2	-3.9	14.7
DEPT OF DEFENSE	3	2	2	3	2	1	2	-16.7	100.0	-5.6
DEPT OF HHS, TOTAL	17	19	21	15	32	45	23	17.6	-48.9	4.4
NIH	11	9	13	8	16	36	18	21.8	-50.0	7.3
OTHER HHS	6	10	8	7	16	9	5	7.0	-44.4	-2.6
NSF	4	17	15	16	24	15	13	24.6	-13.3	18.3
ALL OTHER FEDERAL	128	149	190	262	285	353	360	18.4	2.0	15.9
INSTITUTIONAL SUPPORT	300	415	558	658	858	890	951	19.9	6.9	17.9
OTHER OUTSIDE SUPPORT, TOTAL	86	155	164	208	217	284	287	22.0	1.1	18.8
ALL OTHER U.S.	73	112	109	137	136	199	200	18.2	.5	15.5
FOREIGN	13	43	55	71	81	85	87	36.7	2.4	31.2
SELF-SUPPORT	332	367	471	561	690	707	600	13.4	-15.1	8.8
BIOLOGICAL SCIENCES:										
TOTAL, ALL SOURCES	9,148	10,027	10,931	11,774	12,650	12,993	13,158	6.0	1.3	5.3
FEDERAL, TOTAL	2,684	2,918	2,920	3,148	3,723	3,760	3,678	5.8	-2.2	4.6
DEPT OF DEFENSE	26	17	21	26	30	46	18	10.0	-60.9	-5.1
DEPT OF HHS, TOTAL	2,115	2,277	2,179	2,275	2,700	2,616	2,592	3.6	-.9	2.9
NIH	1,942	2,024	1,958	2,039	2,437	2,427	2,441	3.8	.6	3.3
OTHER HHS	173	253	221	236	263	189	151	1.5	-20.1	-1.9
NSF	236	255	292	345	353	376	343	8.1	-8.8	5.5
ALL OTHER FEDERAL	307	369	428	502	640	722	725	15.3	.4	13.1
INSTITUTIONAL SUPPORT	3,905	4,164	4,589	4,926	5,288	5,657	6,012	6.4	6.3	6.4
OTHER OUTSIDE SUPPORT, TOTAL	484	493	597	657	844	811	751	9.0	-7.4	6.5
ALL OTHER U.S.	383	400	470	500	612	610	546	8.1	-10.5	5.2
FOREIGN	101	93	127	157	232	201	205	12.2	2.0	10.6
SELF-SUPPORT	2,075	2,452	2,825	3,043	2,795	2,765	2,717	4.9	-1.7	3.9
HEALTH SCIENCES:										
TOTAL, ALL SOURCES	7,384	8,593	10,245	11,845	14,215	15,139	15,561	12.7	2.8	11.2
FEDERAL, TOTAL	3,020	3,621	4,304	5,324	5,787	6,034	5,769	12.2	-4.4	9.7
DEPT OF DEFENSE	57	29	32	47	59	55	77	-.6	40.0	4.4
DEPT OF HHS, TOTAL	2,721	3,321	3,956	4,913	5,362	4,659	4,248	9.4	-8.8	6.6
NIH	336	355	346	301	331	372	511	1.7	37.4	6.2
OTHER HHS	2,385	2,966	3,610	4,612	5,031	4,287	3,737	10.3	-12.8	6.6
NSF	6	9	11	11	22	18	15	20.1	-16.7	14.0
ALL OTHER FEDERAL	236	262	305	353	344	1,302	1,429	32.9	9.8	29.3
INSTITUTIONAL SUPPORT	1,168	1,314	1,336	1,565	2,134	2,462	2,467	13.2	.2	11.3
OTHER OUTSIDE SUPPORT, TOTAL	281	284	299	407	598	562	597	12.2	6.2	11.4
ALL OTHER U.S.	192	199	215	275	433	385	461	12.3	19.7	13.2
FOREIGN	89	85	84	132	165	177	136	12.1	-23.2	6.2
SELF-SUPPORT	2,915	3,374	4,306	4,549	5,696	6,081	6,728	13.0	10.6	12.7
PSYCHOLOGY:										
TOTAL, ALL SOURCES	7,429	8,325	9,243	9,644	10,102	10,955	11,324	6.7	3.4	6.2
FEDERAL, TOTAL	1,764	1,872	1,786	1,755	1,634	1,619	1,475	-1.4	-9.0	-2.5
DEPT OF DEFENSE	37	24	34	35	44	41	43	1.7	4.9	2.2
DEPT OF HHS, TOTAL	1,373	1,442	1,404	1,367	1,261	992	882	-5.3	-11.1	-6.1
NIH	604	666	570	565	563	521	472	-2.4	-9.4	-3.5
OTHER HHS	769	776	834	802	698	471	410	-7.8	-13.0	-8.6
NSF	104	96	71	77	113	125	119	3.1	-4.8	1.9
ALL OTHER FEDERAL	250	310	277	276	216	461	429	10.7	-6.9	8.0
INSTITUTIONAL SUPPORT	2,736	2,799	3,140	3,314	3,545	3,924	4,515	6.2	15.1	7.4
OTHER OUTSIDE SUPPORT, TOTAL	370	469	529	573	628	720	717	11.7	-.4	9.9
ALL OTHER U.S.	351	438	493	533	583	671	676	11.4	.7	9.8
FOREIGN	19	31	36	40	45	49	41	17.1	-16.3	11.6
SELF-SUPPORT	2,559	3,185	3,788	4,002	4,295	4,492	4,619	10.6	-1.6	8.8
SOCIAL SCIENCES:										
TOTAL, ALL SOURCES	13,998	15,663	16,640	18,243	20,132	21,378	22,047	7.3	3.1	6.7
FEDERAL, TOTAL	2,135	2,014	2,037	2,066	2,346	2,316	2,041	1.4	-11.9	-.6
DEPT OF DEFENSE	31	45	33	38	36	44	36	6.0	-18.2	2.2
DEPT OF HHS, TOTAL	1,274	1,244	1,187	1,250	1,347	954	867	-4.7	-9.1	-5.3
NIH	313	318	282	217	326	345	297	1.6	-13.9	-.7
OTHER HHS	961	926	905	1,033	1,021	609	570	-7.3	-6.4	-7.2
NSF	199	182	164	140	190	186	171	-1.1	-8.1	-2.1
ALL OTHER FEDERAL	631	543	653	638	773	1,132	967	10.2	-14.6	6.3
INSTITUTIONAL SUPPORT	4,603	4,991	5,355	5,965	7,112	7,601	7,929	8.7	4.3	8.1
OTHER OUTSIDE SUPPORT, TOTAL	838	926	735	929	1,070	1,179	1,249	5.9	5.9	5.9
ALL OTHER U.S.	694	767	585	704	799	755	762	1.4	.9	1.3
FOREIGN	144	159	150	225	271	424	487	19.7	14.9	19.0
SELF-SUPPORT	6,422	7,732	8,513	9,283	9,604	10,282	10,828	8.2	5.3	7.7

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-23. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND TYPE OF MAJOR SUPPORT: 1974-77 AND 1979-81 1/

AREA AND TYPE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL AREAS:										
TOTAL, ALL TYPES	195,455	210,321	214,090	217,454	223,414	230,692	234,529	2.8	1.7	2.6
FELLOWSHIPS AND TRAINEESHIPS	38,498	38,812	37,486	39,204	39,071	38,915	37,650	.2	-3.3	-.3
RESEARCH ASSISTANTSHIPS	39,601	40,136	42,717	43,896	48,410	50,815	51,994	4.2	2.3	4.0
TEACHING ASSISTANTSHIPS	46,192	47,348	48,312	48,665	49,588	51,862	53,758	1.9	3.7	2.2
OTHER TYPES OF SUPPORT	71,164	84,025	85,575	85,689	86,345	89,100	91,127	3.8	2.3	3.6
ENGINEERING:										
TOTAL, ALL TYPES	33,681	37,189	36,583	37,185	39,925	42,481	45,366	3.9	6.8	4.3
FELLOWSHIPS AND TRAINEESHIPS	4,818	4,716	4,694	4,778	4,482	4,688	5,020	-.5	7.1	.6
RESEARCH ASSISTANTSHIPS	11,103	11,040	11,427	11,946	12,941	14,037	14,476	4.0	3.1	3.9
TEACHING ASSISTANTSHIPS	5,196	5,405	5,617	5,794	6,549	7,281	8,288	5.8	13.8	6.9
OTHER TYPES OF SUPPORT	12,564	16,028	14,845	14,667	15,953	16,475	17,582	4.6	6.7	4.9
PHYSICAL SCIENCES:										
TOTAL, ALL TYPES	21,255	21,317	21,623	21,801	21,782	22,241	22,634	.8	1.6	.9
FELLOWSHIPS AND TRAINEESHIPS	2,476	2,244	2,301	2,472	2,271	2,183	2,291	-2.1	4.9	-1.1
RESEARCH ASSISTANTSHIPS	6,395	6,422	6,756	6,784	7,691	8,235	8,494	4.3	3.1	4.1
TEACHING ASSISTANTSHIPS	10,058	10,185	10,201	10,129	9,572	9,893	9,918	-.3	.3	-.2
OTHER TYPES OF SUPPORT	2,326	2,466	2,365	2,416	2,248	1,970	1,931	-2.7	-2.0	-2.6
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL TYPES	8,335	8,863	9,356	9,623	9,824	9,943	10,24	3.0	3.1	3.0
FELLOWSHIPS AND TRAINEESHIPS	892	889	944	1,100	1,002	1,022	1,031	2.3	.9	2.1
RESEARCH ASSISTANTSHIPS	2,665	2,816	3,141	3,194	3,451	3,596	3,369	5.1	-6.3	3.4
TEACHING ASSISTANTSHIPS	2,020	2,166	2,225	2,211	2,457	2,535	2,495	3.9	-1.6	3.1
OTHER TYPES OF SUPPORT	2,758	2,992	3,046	3,118	2,914	2,790	3,352	.2	20.1	2.8
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL TYPES	13,739	14,125	14,525	13,975	14,177	15,253	16,124	1.8	5.7	2.3
FELLOWSHIPS AND TRAINEESHIPS	1,308	1,321	1,280	1,271	1,358	1,253	1,253	-.7	.0	-.6
RESEARCH ASSISTANTSHIPS	1,414	1,375	1,528	1,504	1,615	1,790	1,785	4.0	-.3	3.4
TEACHING ASSISTANTSHIPS	6,390	6,491	6,575	6,345	6,445	6,786	7,275	1.0	7.3	1.9
OTHER TYPES OF SUPPORT	4,627	4,938	5,142	4,855	4,759	5,424	5,808	2.7	7.1	3.3
AGRICULTURAL SCIENCES:										
TOTAL, ALL TYPES	7,606	8,491	9,030	9,289	9,370	9,642	9,623	4.0	-.2	3.4
FELLOWSHIPS AND TRAINEESHIPS	767	891	748	802	699	772	787	.1	1.9	.4
RESEARCH ASSISTANTSHIPS	3,487	3,69[illegible]	3,945	4,068	4,423	4,513	4,676	4.4	3.6	4.3
TEACHING ASSISTANTSHIPS	593	691	783	836	825	892	793	7.0	-11.1	4.2
OTHER TYPES OF SUPPORT	2,759	3,21[illegible]	3,554	3,583	3,423	3,465	3,367	3.9	-2.8	2.9
BIOLOGICAL SCIENCES:										
TOTAL, ALL TYPES	32,180	34,555	35,243	35,816	35,351	35,270	34,854	1.5	-1.2	1.1
FELLOWSHIPS AND TRAINEESHIPS	8,283	8,629	[illegible],974	8,137	8,118	8,039	7,868	-.5	-2.1	-.7
RESEARCH ASSISTANTSHIPS	6,521	6,758	7,646	7,944	9,160	9,461	9,644	6.4	1.9	5.7
TEACHING ASSISTANTSHIPS	8,537	8,795	9,076	9,112	8,780	9,014	8,874	.9	-1.6	.6
OTHER TYPES OF SUPPORT	8,839	10,373	10,547	10,623	9,293	8,[illegible]	8,468	-.2	-3.3	-.6
HEALTH SCIENCES:										
TOTAL, ALL TYPES	15,221	16,566	17,720	19,341	21,861	22,928	23,040	7.1	.5	6.1
FELLOWSHIPS AND TRAINEESHIPS	6,021	6,563	6,647	7,655	8,223	8,180	7,844	5.2	-4.1	3.9
RESEARCH ASSISTANTSHIPS	843	856	1,001	1,069	1,444	1,527	1,655	10.4	8.4	10.1
TEACHING ASSISTANTSHIPS	1,678	1,727	1,721	1,927	1,994	2,098	2,053	3.8	-2.1	2.9
OTHER TYPES OF SUPPORT	6,679	7,420	8,351	8,690	10,200	11,123	11,488	8.9	3.3	8.1
PSYCHOLOGY:										
TOTAL, ALL TYPES	18,889	19,696	21,431	21,225	20,695	21,574	21,470	2.2	-.5	1.8
FELLOWSHIPS AND TRAINEESHIPS	4,566	4,476	4,321	4,183	3,600	3,446	3,170	-4.6	-8.0	-5.1
RESEARCH ASSISTANTSHIPS	2,291	2,208	2,244	2,294	2,332	2,335	2,657	.3	13.8	2.1
TEACHING ASSISTANTSHIPS	3,924	4,086	4,107	4,206	4,202	4,407	4,587	2.0	4.1	2.3
OTHER TYPES OF SUPPORT	8,108	8,926	10,759	10,542	10,561	11,386	11,056	5.8	-2.9	4.5
SOCIAL SCIENCES:										
TOTAL, ALL TYPES	44,549	49,519	48,579	49,199	50,429	51,320	51,171	2.4	-.3	2.0
FELLOWSHIPS AND TRAINEESHIPS	9,367	9,083	8,577	8,806	9,318	9,332	8,386	-.1	-10.1	-1.6
RESEARCH ASSISTANTSHIPS	4,882	4,965	5,029	5,093	5,353	5,321	5,238	1.4	-1.6	1.0
TEACHING ASSISTANTSHIPS	7,796	7,802	8,007	8,105	8,764	8,956	9,472	2.3	5.8	2.8
OTHER TYPES OF SUPPORT	22,504	27,669	26,966	27,195	26,994	27,711	28,075	3.5	1.3	3.2

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-24. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY AREA AND TYPE OF MAJOR SUPPORT: 1974-77 AND 1979-81 1/

AREA AND TYPE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL AREAS:										
TOTAL, ALL TYPES	143,256	154,024	156,252	157,7[illegible]	160,070	165,20[illegible]	167,369	2.4	1.3	2.2
FELLOWSHIPS AND TRAINEESHIPS	22,344	22,656	21,836	22,2[illegible]	22,905	22,621	22,724	.2	.5	.2
RESEARCH ASSISTANTSHIPS	30,958	31,272	33,285	34,123	37,396	38,876	39,038	3.9	1.2	3.5
TEACHING ASSISTANTSHIPS	37,535	38,303	39,133	39,456	39,566	41,659	42,214	1.8	1.3	1.7
OTHER TYPES OF SUPPORT	52,419	61,793	61,998	61,919	60,203	62,048	63,093	2.9	1.7	2.7
ENGINEERING:										
TOTAL, ALL TYPES	23,366	25,586	25,205	25,590	27,136	29,285	31,334	3.8	7.0	4.3
FELLOWSHIPS AND TRAINEESHIPS	2,412	2,386	2,482	2,462	2,362	2,584	2,873	1.2	11.2	2.5
RESEARCH ASSISTANTSHIPS	7,902	7,722	7,853	8,154	8,756	9,448	9,807	3.0	3.8	3.1
TEACHING ASSISTANTSHIPS	3,828	3,980	4,207	4,322	4,752	5,418	6,152	6.0	13.5	7.0
OTHER TYPES OF SUPPORT	9,224	11,498	10,663	10,652	11,266	11,835	12,502	4.2	5.6	4.4
PHYSICAL SCIENCES:										
TOTAL, ALL TYPES	14,947	15,101	15,333	15,453	15,445	15,820	16,084	1.0	1.7	1.1
FELLOWSHIPS AND TRAINEESHIPS	1,111	970	1,012	1,103	1,115	1,043	1,222	-1.0	17.2	1.4
RESEARCH ASSISTANTSHIPS	4,372	4,370	4,655	4,573	5,191	5,559	5,770	4.1	3.8	4.0
TEACHING ASSISTANTSHIPS	7,801	7,841	7,821	7,878	7,[illegible]	7,668	7,591	-.3	-1.0	-.4
OTHER TYPES OF SUPPORT	1,663	1,920	1,845	1,899	1,726	1,550	1,501	-1.2	-3.2	-1.5
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL TYPES	6,700	7,218	7,693	7,955	8,197	8,233	8,479	3.5	3.0	3.4
FELLOWSHIPS AND TRAINEESHIPS	544	518	595	683	656	692	724	4.1	4.6	4.2
RESEARCH ASSISTANTSHIPS	2,125	2,245	2,540	2,595	2,809	2,879	2,680	5.2	-6.9	3.4
TEACHING ASSISTANTSHIPS	1,737	1,915	1,919	1,911	2,129	2,184	2,138	3.9	-2.1	3.0
OTHER TYPES OF SUPPORT	2,294	2,540	2,639	2,766	2,603	2,478	2,937	1.3	18.5	3.4
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL TYPES	10,362	10,780	11,041	10,582	10,716	11,378	11,812	1.6	3.8	1.9
FELLOWSHIPS AND TRAINEESHIPS	610	639	597	528	684	597	650	-.4	8.9	.9
RESEARCH ASSISTANTSHIPS	918	873	937	924	1,049	1,196	1,162	4.5	-2.8	3.4
TEACHING ASSISTANTSHIPS	5,200	5,338	5,384	5,272	5,315	5,553	5,906	1.1	6.4	1.8
OTHER TYPES OF SUPPORT	3,634	3,930	4,123	3,858	3,668	4,032	4,094	1.7	1.5	1.7
AGRICULTURAL SCIENCES:										
TOTAL, ALL TYPES	7,392	8,251	8,787	9,040	9,069	9,358	9,344	4.0	-.1	3.4
FELLOWSHIPS AND TRAINEESHIPS	707	812	668	723	612	681	698	-.6	2.5	-.2
RESEARCH ASSISTANTSHIPS	3,391	3,593	3,845	3,972	4,303	4,394	4,553	4.4	3.6	4.3
TEACHING ASSISTANTSHIPS	577	677	763	814	797	869	770	7.1	-11.4	4.2
OTHER TYPES OF SUPPORT	2,717	3,169	3,511	3,531	3,357	3,414	3,323	3.9	-2.7	2.9
BIOLOGICAL SCIENCES:										
TOTAL, ALL TYPES	24,429	26,214	26,608	27,049	26,411	26,419	26,107	1.3	-1.2	1.0
FELLOWSHIPS AND TRAINEESHIPS	4,631	4,694	4,207	4,235	4,497	4,348	4,376	-1.0	.6	-.8
RESEARCH ASSISTANTSHIPS	5,60[illegible]	5,935	6,599	6,959	7,749	7,963	7,886	6.0	-1.0	5.0
TEACHING ASSISTANTSHIPS	7,25[illegible]	7,362	7,636	7,652	7,325	7,528	7,335	.6	-2.6	.2
OTHER TYPES OF SUPPORT	6,95[illegible]	8,223	8,166	8,203	6,840	6,580	6,510	-.9	-1.1	-.9
HEALTH SCIENCES:										
TOTAL, ALL TYPES	11,805	13,019	13,951	14,940	16,293	16,915	16,836	6.2	-.5	5.2
FELLOWSHIPS AND TRAINEESHIPS	4,560	5,125	5,183	5,610	5,967	5,969	5,696	4.6	-4.6	3.2
RESEARCH ASSISTANTSHIPS	715	710	882	923	1,218	1,305	1,351	10.5	3.5	9.5
TEACHING ASSISTANTSHIPS	1,465	1,511	1,539	1,710	1,804	1,872	1,803	4.2	-3.7	3.0
OTHER TYPES OF SUPPORT	5,065	5,673	6,347	6,697	7,304	7,769	7,986	7.4	2.8	6.7
PSYCHOLOGY:										
TOTAL, ALL TYPES	13,031	13,414	13,941	13,526	12,782	13,083	12,969	.1	-.9	-.1
FELLOWSHIPS AND TRAINEESHIPS	2,816	2,800	2,723	2,560	2,267	2,110	2,015	-4.7	-4.5	-4.7
RESEARCH ASSISTANTSHIPS	1,893	1,747	1,818	1,769	1,925	1,864	1,991	-.3	6.8	.7
TEACHING ASSISTANTSHIPS	3,243	3,321	3,328	3,379	3,285	3,525	3,406	1.4	-3.4	.7
OTHER TYPES OF SUPPORT	5,079	5,546	6,072	5,818	5,305	5,584	5,557	1.6	-.5	1.3
SOCIAL SCIENCES:										
TOTAL, ALL TYPES	31,224	34,441	33,693	33,634	34,021	34,713	34,404	1.8	-.9	1.4
FELLOWSHIPS AND TRAINEESHIPS	4,953	4,712	4,369	4,367	4,745	4,597	4,470	-1.2	-2.8	-1.5
RESEARCH ASSISTANTSHIPS	4,036	4,077	4,156	4,254	4,396	4,268	4,138	.9	-3.0	.4
TEACHING ASSISTANTSHIPS	6,427	6,358	6,536	6,518	6,746	7,042	7,113	1.5	1.0	1.5
OTHER TYPES OF SUPPORT	15,808	19,294	18,632	18,495	18,134	18,806	18,683	2.9	-.7	2.4

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-25. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY AREA AND TYPE OF MAJOR SUPPORT: 1974-77 AND 1979-81 1/

AREA AND TYPE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL AREAS:										
TOTAL, ALL TYPES	52,199	56,297	57,838	59,685	63,344	65,488	67,160	3.9	2.6	3.7
FELLOWSHIPS AND TRAINEESHIPS	16,154	16,156	15,650	16,933	16,166	16,294	14,926	.1	-8.4	-1.1
RESEARCH ASSISTANTSHIPS	8,643	8,864	9,432	9,773	11,014	11,939	12,656	5.5	6.0	5.6
TEACHING ASSISTANTSHIPS	8,657	9,045	9,179	9,209	10,022	10,203	11,544	2.8	13.1	4.2
OTHER TYPES OF SUPPORT	18,745	22,232	23,577	23,770	26,142	27,052	28,034	6.3	3.6	5.9
ENGINEERING:										
TOTAL, ALL TYPES	10,315	11,603	11,378	11,595	12,789	13,196	14,032	4.2	6.3	4.5
FELLOWSHIPS AND TRAINEESHIPS	2,406	2,330	2,212	2,316	2,120	2,104	2,147	-2.2	2.0	-1.6
RESEARCH ASSISTANTSHIPS	3,201	3,318	3,574	3,792	4,185	4,589	4,669	6.2	1.7	5.5
TEACHING ASSISTANTSHIPS	1,368	1,425	1,410	1,472	1,797	1,863	2,136	5.3	14.7	6.6
OTHER TYPES OF SUPPORT	3,340	4,530	4,182	4,015	4,687	4,640	5,080	5.6	9.5	6.2
PHYSICAL SCIENCES:										
TOTAL, ALL TYPES	6,308	6,216	6,290	6,348	6,337	6,461	6,550	.4	1.4	.5
FELLOWSHIPS AND TRAINEESHIPS	1,365	1,274	1,289	1,369	1,156	1,140	1,069	-3.0	-6.2	-3.4
RESEARCH ASSISTANTSHIPS	2,023	2,052	2,101	2,211	2,500	2,676	2,724	4.8	1.8	4.3
TEACHING ASSISTANTSHIPS	2,257	2,344	2,380	2,251	2,179	2,225	2,327	-.2	4.6	.4
OTHER TYPES OF SUPPORT	663	546	520	517	522	420	430	-7.3	2.4	-6.0
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL TYPES	1,635	1,645	1,663	1,668	1,627	1,710	1,768	.8	3.4	1.1
FELLOWSHIPS AND TRAINEESHIPS	348	371	349	41	346	330	307	-.9	-7.0	-1.8
RESEARCH ASSISTANTSHIPS	540	571	601	595	642	717	689	4.8	-3.9	3.5
TEACHING ASSISTANTSHIPS	283	251	306	300	328	351	357	3.7	1.7	3.4
OTHER TYPES OF SUPPORT	464	452	407	352	311	312	415	-6.4	33.0	-1.6
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL TYPES	3,377	3,345	3,474	3,393	3,461	3,875	4,312	2.3	11.3	3.6
FELLOWSHIPS AND TRAINEESHIPS	698	682	683	743	674	656	603	-1.0	-8.1	-2.1
RESEARCH ASSISTANTSHIPS	496	502	591	580	566	594	623	3.1	4.9	3.3
TEACHING ASSISTANTSHIPS	1,190	1,153	1,191	1,073	1,130	1,233	1,372	.6	11.3	2.1
OTHER TYPES OF SUPPORT	993	1,008	1,019	997	1,091	1,392	1,714	5.8	23.1	8.1
AGRICULTURAL SCIENCES:										
TOTAL, ALL TYPES	214	240	243	249	301	284	279	4.8	-1.8	3.9
FELLOWSHIPS AND TRAINEESHIPS	60	79	80	79	87	91	89	7.2	-2.2	5.8
RESEARCH ASSISTANTSHIPS	96	103	100	96	120	119	123	3.6	3.4	3.6
TEACHING ASSISTANTSHIPS	16	14	20	22	28	23	23	6.2	.0	5.3
OTHER TYPES OF SUPPORT	42	44	43	52	66	51	44	3.3	-13.7	.7
BIOLOGICAL SCIENCES:										
TOTAL, ALL TYPES	7,751	8,341	8,635	8,767	8,940	8,851	8,747	2.2	-1.2	1.7
FELLOWSHIPS AND TRAINEESHIPS	3,652	3,935	3,767	3,902	3,621	3,691	3,492	.2	-5.4	-.6
RESEARCH ASSISTANTSHIPS	915	823	1,047	985	1,411	1,498	1,758	8.6	17.4	9.8
TEACHING ASSISTANTSHIPS	1,280	1,433	1,440	1,460	1,455	1,486	1,539	2.5	3.6	2.7
OTHER TYPES OF SUPPORT	1,904	2,150	2,381	2,420	2,453	2,176	1,958	2.3	-10.0	.4
HEALTH SCIENCES:										
TOTAL, ALL TYPES	3,416	3,547	3,769	4,401	5,568	6,013	6,204	9.9	3.2	8.9
FELLOWSHIPS AND TRAINEESHIPS	1,461	1,438	1,464	2,045	2,256	2,211	2,148	7.1	-2.8	5.7
RESEARCH ASSISTANTSHIPS	128	146	119	146	226	222	304	9.6	36.9	13.2
TEACHING ASSISTANTSHIPS	213	216	182	217	190	226	250	1.0	10.6	2.3
OTHER TYPES OF SUPPORT	1,614	1,747	2,004	1,993	2,896	3,354	3,502	13.0	4.4	11.7
PSYCHOLOGY:										
TOTAL, ALL TYPES	5,858	6,282	7,490	7,699	7,913	8,491	8,501	6.4	.1	5.5
FELLOWSHIPS AND TRAINEESHIPS	1,750	1,676	1,598	1,623	1,333	1,336	1,155	-4.4	-13.5	-5.8
RESEARCH ASSISTANTSHIPS	398	461	426	525	407	471	666	2.8	41.4	7.6
TEACHING ASSISTANTSHIPS	681	765	779	827	917	882	1,181	4.4	33.9	8.2
OTHER TYPES OF SUPPORT	3,029	3,380	4,687	4,724	5,256	5,802	5,499	11.4	-5.2	8.9
SOCIAL SCIENCES:										
TOTAL, ALL TYPES	13,325	15,078	14,886	15,565	16,408	16,607	16,767	3.7	1.0	3.3
FELLOWSHIPS AND TRAINEESHIPS	4,414	4,371	4,208	4,439	4,573	4,735	3,916	1.2	-17.3	-1.7
RESEARCH ASSISTANTSHIPS	846	888	873	839	957	1,053	1,100	3.7	4.5	3.8
TEACHING ASSISTANTSHIPS	1,369	1,444	1,471	1,587	2,018	1,914	2,359	5.7	23.2	8.1
OTHER TYPES OF SUPPORT	6,696	8,375	8,334	8,700	8,860	8,905	9,392	4.9	5.5	5.0

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-26. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY TYPE AND SOURCE OF MAJOR SUPPORT: 1974-77 AND 1979-81 1/

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL TYPES:										
TOTAL, ALL SOURCES	195,455	210,321	214,090	217,454	223,414	230,692	234,529	2.8	1.7	2.6
FEDERAL, TOTAL	47,989	48,249	48,594	50,378	52,874	52,958	50,844	1.7	-4.0	.8
DEPT OF DEFENSE	4,547	5,084	4,798	4,993	4,998	5,239	5,608	-.9	7.0	.2
DEPT OF HHS, TOTAL	20,022	20,869	20,366	21,081	22,652	19,392	17,986	-.5	-7.3	-1.5
NIH	11,919	12,214	11,360	10,928	11,663	11,575	11,175	-.5	-3.5	-.9
OTHER HHS	8,103	8,655	9,006	10,153	10,989	7,817	6,811	-.6	-12.9	-2.5
NSF	8,818	8,796	8,962	9,023	9,275	9,145	9,056	.8	-2.0	.4
ALL OTHER FEDERAL	13,602	13,500	14,468	15,281	15,949	19,082	18,194	5.8	-4.7	4.2
INSTITUTIONAL SUPPORT	75,223	77,083	79,218	80,405	82,815	86,745	90,441	2.4	4.3	2.7
OTHER OUTSIDE SUPPORT, TOTAL	16,376	16,852	17,680	18,229	20,039	21,114	22,276	4.3	5.5	4.5
ALL OTHER U.S.	11,847	11,440	11,373	11,323	12,493	13,084	13,745	1.7	5.1	2.1
FOREIGN	4,529	5,412	6,307	6,906	7,546	8,030	8,531	10.0	6.2	9.5
SELF-SUPPORT	55,867	68,137	68,598	68,442	67,686	69,875	70,968	3.8	1.6	3.5
FELLOWSHIPS AND TRAINEESHIPS:										
TOTAL, ALL SOURCES	38,498	38,812	37,486	39,204	39,071	38,915	37,650	.2	-3.3	-.3
FEDERAL, TOTAL	20,137	20,271	18,899	19,686	19,313	18,446	16,731	-1.5	-9.3	-2.6
DEPT OF DEFENSE	538	513	448	472	280	325	259	-8.1	-20.3	-9.9
DEPT OF HHS, TOTAL	14,831	15,125	14,170	14,899	15,478	12,677	11,430	-2.6	-9.8	-3.7
NIH	8,020	7,828	6,528	6,256	6,232	5,820	5,495	-5.2	-5.6	-5.3
OTHER HHS	6,811	7,297	7,642	8,643	9,246	6,857	5,935	.1	-13.4	-1.9
NSF	1,717	1,796	1,765	1,809	1,582	1,509	1,369	-2.1	-9.3	-3.2
ALL OTHER FEDERAL	3,051	2,837	2,516	2,506	1,973	3,935	3,673	4.3	-6.7	2.7
INSTITUTIONAL SUPPORT	11,449	11,393	11,338	11,742	12,750	12,760	13,085	1.8	2.5	1.9
OTHER OUTSIDE SUPPORT, TOTAL	6,912	7,148	7,249	7,776	7,008	7,709	7,834	1.8	1.6	1.8
ALL OTHER U.S.	4,470	4,115	3,948	3,991	3,778	3,999	4,019	-1.8	.5	-1.5
FOREIGN	2,442	3,033	3,301	3,785	3,230	3,710	3,815	7.2	2.8	6.6
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:										
TOTAL, ALL SOURCES	39,601	40,136	42,717	43,896	48,410	50,815	51,994	4.2	2.3	4.0
FEDERAL, TOTAL	22,307	23,077	24,420	25,179	27,841	29,080	28,884	4.5	-.7	3.8
DEPT OF DEFENSE	2,657	2,501	2,538	2,637	2,795	2,924	3,263	1.6	11.6	3.0
DEPT OF HHS, TOTAL	4,393	4,754	5,356	5,272	6,143	5,980	5,982	5.3	*	4.5
NIH	3,477	3,887	4,455	4,307	4,991	5,383	5,377	7.6	-.1	6.4
OTHER HHS	916	867	901	965	1,152	597	605	-6.9	1.3	-5.8
NSF	6,899	6,822	7,036	7,041	7,465	7,405	7,562	1.6	-.6	1.3
ALL OTHER FEDERAL	8,358	9,000	9,490	10,229	11,438	12,571	12,077	7.0	-3.9	5.4
INSTITUTIONAL SUPPORT	12,944	12,894	13,872	14,163	15,029	15,991	16,844	3.6	5.3	3.8
OTHER OUTSIDE SUPPORT, TOTAL	4,350	4,165	4,425	4,554	5,540	5,744	6,266	4.7	9.1	5.4
ALL OTHER U.S.	4,050	3,924	4,130	4,219	4,853	5,211	5,663	4.3	8.7	4.9
FOREIGN	300	241	295	335	687	533	603	10.1	13.1	10.5
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
TEACHING ASSISTANTSHIPS:										
TOTAL, ALL SOURCES	46,192	47,348	48,312	48,665	49,588	51,862	53,758	1.9	3.7	2.2
FEDERAL, TOTAL	634	548	563	586	549	603	549	-.8	-9.0	-2.0
DEPT OF DEFENSE	0	0	0	0	0	0	0	0	0	0
DEPT OF HHS, TOTAL	304	341	299	296	241	132	116	-13.0	-12.1	-12.9
NIH	141	160	148	121	109	82	74	-8.6	-9.8	-8.8
OTHER HHS	163	181	151	175	132	50	42	-17.9	-16.0	-17.6
NSF	69	51	44	35	27	30	58	-13.0	93.3	-2.5
ALL OTHER FEDERAL	261	156	220	255	281	441	375	9.1	-15.0	5.3
INSTITUTIONAL SUPPORT	45,126	46,631	47,451	47,767	48,666	50,951	52,824	2.0	3.7	2.3
OTHER OUTSIDE SUPPORT, TOTAL	432	169	298	312	373	308	385	-5.5	25.0	-1.6
ALL OTHER U.S.	432	169	298	312	373	308	385	-5.5	25.0	-1.6
FOREIGN	0	0	0	0	0	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
OTHER TYPES OF SUPPORT:										
TOTAL, ALL SOURCES	71,164	84,025	85,575	85,689	86,345	89,100	91,127	3.8	2.3	3.6
FEDERAL, TOTAL	4,911	4,353	4,712	4,927	5,171	4,829	4,680	-.3	-3.1	-.7
DEPT OF DEFENSE	2,352	2,070	1,812	1,884	1,923	1,990	2,086	-2.7	4.8	-1.7
DEPT OF HHS, TOTAL	494	649	541	614	790	603	458	3.4	-24.0	-1.1
NIH	281	339	229	244	331	290	229	.5	-21.0	-2.9
OTHER HHS	213	310	312	370	459	313	229	6.6	-26.8	1.0
NSF	133	127	117	138	201	101	67	-4.5	-33.7	-9.3
ALL OTHER FEDERAL	1,932	1,507	2,242	2,291	2,257	2,135	2,069	1.7	-3.1	1.0
INSTITUTIONAL SUPPORT	5,704	6,165	6,557	6,733	6,370	7,043	7,688	3.6	9.2	4.4
OTHER OUTSIDE SUPPORT, TOTAL	4,682	5,370	5,708	5,587	7,118	7,353	7,791	7.8	6.0	7.5
ALL OTHER U.S.	2,895	3,232	2,997	2,801	3,489	3,566	3,678	3.5	3.1	3.5
FOREIGN	1,787	2,138	2,711	2,786	3,629	3,787	4,113	13.3	8.6	12.6
SELF-SUPPORT	55,867	68,137	68,598	68,442	67,686	69,875	70,968	3.8	1.6	3.5

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-27 -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FELLOWSHIPS AND TRAINEESHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	38,498	38,812	37,486	39,204	39,071	38,915	37,650	.2	-3.3	-.3
ENGINEERING	4,818	4,716	4,694	4,778	4,482	4,688	5,020	-.5	7.1	.6
AEROSPACE	114	121	107	92	90	105	130	-1.4	23.8	1.9
AGRICULTURAL	89	56	45	86	73	85	47	-.8	-44.7	-8.7
BIOMEDICAL	215	191	186	132	192	152	143	-5.6	-5.9	-5.7
CHEMICAL	703	702	770	817	714	729	820	.6	12.5	2.2
CIVIL	1,077	1,024	840	772	697	675	755	-7.5	11.9	-4.9
ELECTRICAL	890	769	767	779	751	864	994	-.5	15.0	1.6
ENGINEERING SCIENCE	204	135	152	165	163	172	214	-2.8	24.4	.7
INDUSTRIAL	311	405	281	494	258	288	305	-1.3	5.9	-.3
MECHANICAL	540	463	511	524	558	582	651	1.3	11.9	2.7
METALLURGICAL/MATERIALS	205	215	279	253	282	316	292	7.5	-7.6	5.2
MINING	44	83	163	193	151	114	102	17.2	-10.5	12.8
NUCLEAR	166	299	279	202	128	165	148	-.1	-10.3	-1.6
PETROLEUM	47	79	133	112	77	89	73	11.2	-18.0	6.5
ENGINEERING, N.E.C.	213	174	181	157	266	352	346	8.7	-1.7	7.2
PHYSICAL SCIENCES	2,476	2,244	2,301	2,472	2,271	2,183	2,291	-2.1	4.9	-1.1
ASTRONOMY	105	103	106	106	95	103	72	-.3	-30.1	-5.2
CHEMISTRY	1,461	1,315	1,360	1,426	1,416	1,278	1,406	-2.2	10.0	-.5
PHYSICS	906	824	830	939	756	793	808	-2.2	1.9	-1.6
PHYSICAL SCIENCES, N.E.C.	4	2	5	1	4	9	5	14.5	-44.4	3.2
ENVIRONMENTAL SCIENCES	892	889	944	1,100	1,002	1,022	1,031	2.3	.9	2.1
ATMOSPHERIC SCIENCES	102	74	78	59	41	30	22	-18.5	-26.7	-19.7
GEOSCIENCES	524	573	678	845	663	741	728	5.9	-1.8	4.8
OCEANOGRAPHY	158	145	116	123	155	168	177	1.0	5.4	1.6
ENVIRONMENTAL SCIENCES, N.E.C.	108	97	72	73	141	83	104	-4.3	25.3	-.5
MATHEMATICAL/COMPUTER SCIENCES	1,308	1,321	1,280	1,271	1,358	1,253	1,253	-.7	.0	-.6
COMPUTER SCIENCE	251	327	317	305	423	385	458	7.4	19.0	9.0
MATHEMATICS AND APPLIED MATHEMATICS	847	817	790	825	776	699	680	-3.2	-2.7	-3.1
STATISTICS	210	177	173	141	159	169	115	-3.6	-32.0	-8.2
LIFE SCIENCES	15,071	16,083	15,369	16,594	17,040	16,991	16,499	2.0	-2.9	1.3
AGRICULTURAL SCIENCES	767	891	748	802	699	772	787	.1	1.9	.4
BIOLOGICAL SCIENCES	8,283	8,629	7,974	8,137	8,118	8,039	7,868	-.5	-2.1	-.7
ANATOMY	380	352	291	303	294	292	298	-4.3	2.1	-3.4
BIOCHEMISTRY	1,349	1,269	1,223	1,164	1,071	1,001	952	-4.9	-4.9	-4.9
BIOLOGY	1,337	1,552	1,485	1,580	1,526	1,417	1,259	1.0	-11.2	-.9
BIOMETRY/EPIDEMIOLOGY	314	335	292	317	346	364	444	2.5	22.0	5.1
BIOPHYSICS	300	286	253	235	217	193	186	-7.1	-3.6	-6.6
BOTANY	321	296	284	301	267	231	225	-3.8	-2.6	-3.6
CELL BIOLOGY	283	303	274	333	355	446	456	7.9	2.2	7.1
ECOLOGY	72	84	82	74	82	119	126	8.7	5.9	8.3
ENTOMOLOGY/PARASITOLOGY	137	128	121	88	130	154	166	2.0	7.8	2.8
GENETICS	321	339	290	395	336	349	294	1.4	-15.8	-1.2
MICROBIOLOGY	1,010	1,045	977	980	962	908	827	-1.8	-8.9	-2.8
NUTRITION	425	418	361	407	377	382	360	-1.8	-5.8	-2.3
PATHOLOGY	397	418	383	316	334	331	405	-3.0	22.4	.3
PHARMACOLOGY	610	707	729	741	855	863	887	6.0	2.8	5.5
PHYSIOLOGY	694	697	604	575	561	562	528	-3.5	-6.0	-3.8
ZOOLOGY	258	321	224	218	199	200	197	-4.2	-1.5	-3.8
BIOSCIENCES, N.E.C.	105	79	101	110	206	227	258	13.7	13.7	13.7
HEALTH SCIENCES	6,021	6,563	6,647	7,655	8,223	8,180	7,844	5.2	-4.1	3.9
ANESTHESIOLOGY	13	55	4	1	3	0	1	-100.0	**	-30.7
CANCER/ONCOLOGY	53	35	31	40	34	34	0	-7.1	-100.0	-100.0
CARDIOLOGY	36	20	0	3	1	11	0	-17.9	-100.0	-100.0
DENTISTRY	207	235	201	180	202	174	197	-2.9	13.2	-.7
ENDOCRINOLOGY	12	14	13	7	20	20	20	8.9	.0	7.6
GASTROENTEROLOGY	43	11	8	8	0	0	2	-100.0	**	-35.5
HEMATOLOGY	21	0	0	1	5	1	2	-39.8	100.0	-28.5
NEUROLOGY	144	205	197	204	213	191	193	4.8	1.0	4.3
NURSING	1,415	1,944	2,693	3,749	3,625	3,660	3,587	17.2	-2.0	14.2
OBSTETRICS/GYNECOLOGY	46	27	25	14	20	2	6	-40.7	200.0	-25.2
OPHTHALMOLOGY	29	23	7	6	2	10	6	-16.3	-40.0	-20.2
OTORHINOLARYNGOLOGY	52	38	46	25	14	11	12	-22.8	9.1	-18.9
PEDIATRICS	84	71	48	50	53	64	83	-4.4	29.7	-.2
PHARMACEUTICAL SCIENCES	282	271	232	230	236	231	273	-3.3	18.2	-.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,464	1,576	1,404	1,320	1,818	1,958	1,823	5.0	-6.9	3.2
PSYCHIATRY	131	60	49	60	49	37	25	-19.0	-32.4	-21.1
PULMONARY DISEASE	42	7	0	3	0	13	9	-17.8	-30.8	-19.8
RADIOLOGY	151	153	112	116	84	75	108	-11.0	44.0	-4.7
SPEECH PATHOLOGY/AUDIOLOGY	818	917	826	882	925	795	783	-.5	-1.5	-.6
SURGERY	65	85	73	45	34	32	57	-11.1	78.1	-1.9
VETERINARY SCIENCES	83	101	105	90	108	123	99	6.8	-19.5	2.6
CLINICAL MEDICINE, N.E.C.	259	141	64	91	113	120	108	-12.0	-10.0	-11.7
HEALTH RELATED, N.E.C.	571	574	509	530	664	618	450	1.3	-27.2	-3.3
PSYCHOLOGY	4,566	4,476	4,321	4,183	3,600	3,446	3,170	-4.6	-8.0	-5.1
SOCIAL SCIENCES	9,367	9,083	8,577	8,806	9,318	9,332	8,386	-.1	-10.1	-1.6
AGRICULTURAL ECONOMICS	233	250	182	289	149	211	198	-1.6	-6.2	-2.3
ANTHROPOLOGY	962	905	899	842	837	813	739	-2.7	-9.3	-3.7
ECONOMICS (EXCEPT AGRICULTURAL)	1,411	1,547	1,462	1,461	1,370	1,366	1,125	-.5	-17.6	-3.2
GEOGRAPHY	271	278	230	258	199	267	187	-.2	-30.0	-5.2
HISTORY AND PHILOSOPHY OF SCIENCE	84	91	90	68	68	67	57	-3.7	-14.9	-5.4
LINGUISTICS	362	369	425	408	543	383	365	.9	-4.7	.1
POLITICAL SCIENCE	1,911	1,982	1,855	1,925	2,319	2,634	2,478	5.5	-5.9	3.8
SOCIOLOGY	1,435	1,352	1,208	1,093	1,184	1,046	993	-5.1	-5.1	-5.1
SOCIOLOGY/ANTHROPOLOGY	105	120	129	77	92	57	45	-9.7	-21.1	-11.4
SOCIAL SCIENCES, N.E.C.	2,593	2,189	2,097	2,385	2,557	2,486	2,199	-.7	-11.5	-2.3

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-28. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED FELLOWSHIPS AND TRAINEESHIPS 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	20,137	20,271	18,899	19,686	19,313	18,446	16,731	-1.5	-9.3	-2.6
ENGINEERING	1,708	1,718	1,581	1,588	1,227	1,086	972	-7.3	-10.5	-7.7
AEROSPACE	16	16	20	13	16	28	45	9.8	60.7	15.9
AGRICULTURAL	34	27	15	21	9	7	8	-23.2	14.3	-18.7
BIOMEDICAL	167	146	134	100	139	113	77	-6.3	-31.9	-10.5
CHEMICAL	156	179	218	245	143	142	129	-1.6	-9.2	2.7
CIVIL	655	598	405	329	228	227	170	-16.2	-25.1	-17.5
ELECTRICAL	218	201	159	136	132	111	93	-10.6	-16.2	-11.5
ENGINEERING SCIENCE	77	29	19	31	31	37	92	-11.5	148.6	2.6
INDUSTRIAL	76	82	76	205	142	54	72	-5.5	33.3	-.8
MECHANICAL	126	143	161	148	98	89	85	-5.6	-4.5	-5.5
METALLURGICAL/MATERIALS	33	60	96	89	98	96	67	19.5	-30.2	10.6
MINING	8	53	96	145	123	76	51	45.5	-32.9	30.3
NUCLEAR	96	141	117	55	19	28	29	-18.6	3.6	-15.7
PETROLEUM	3	25	34	31	9	21	7	40.4	-69.6	12.9
ENGINEERING, N.E.C.	43	18	31	40	40	55	47	4.2	-14.5	1.3
PHYSICAL SCIENCES	660	556	529	544	586	525	503	-3.7	-4.2	-3.8
ASTRONOMY	20	18	22	21	19	24	13	3.1	-45.8	-6.0
CHEMISTRY	442	388	359	351	401	338	347	-4.4	2.7	-3.4
PHYSICS	195	148	147	171	166	156	142	-3.7	-9.0	-4.4
PHYSICAL SCIENCES, N.E.C.	3	2	1	1	0	7	1	15.2	-85.7	-14.5
ENVIRONMENTAL SCIENCES	261	270	311	375	395	384	291	6.6	-24.2	1.6
ATMOSPHERIC SCIENCES	51	32	34	28	14	13	9	-20.4	-30.8	-21.9
GEOSCIENCES	93	151	220	265	251	283	205	20.4	-27.6	12.0
OCEANOGRAPHY	62	41	36	59	58	58	50	-1.1	-13.8	-3.0
ENVIRONMENTAL SCIENCES, N.E.C.	55	46	21	23	72	30	27	-9.6	-10.0	-9.7
MATHEMATICAL/COMPUTER SCIENCES	274	270	249	256	231	237	159	-2.4	-32.9	-7.5
COMPUTER SCIENCE	44	75	78	91	74	96	62	13.9	-35.4	5.0
MATHEMATICS AND APPLIED MATHEMATICS	164	133	119	118	132	126	87	-4.3	-31.0	-8.7
STATISTICS	66	62	52	47	25	15	10	-21.9	-33.3	-23.6
LIFE SCIENCES	10,572	11,224	10,465	11,534	12,087	11,774	11,017	1.8	-6.4	.6
AGRICULTURAL SCIENCES	275	222	150	155	156	160	129	-8.6	-19.4	-10.2
BIOLOGICAL SCIENCES	5,714	5,867	4,925	5,083	5,137	4,789	4,598	-2.9	-4.0	-3.1
ANATOMY	273	237	175	180	159	137	144	-10.9	5.1	-8.7
BIOCHEMISTRY	981	874	747	779	671	649	591	-6.7	-8.9	-7.0
BIOLOGY	827	932	775	862	913	794	747	-.7	-5.9	-1.4
BIOMETRY/EPIDEMIOLOGY	238	259	208	213	283	303	338	4.1	11.6	5.1
BIOPHYSICS	233	224	210	187	177	155	123	-6.6	-20.6	-8.7
BOTANY	80	76	59	77	61	54	66	-6.3	22.2	-2.7
CELL BIOLOGY	215	229	193	252	283	330	359	7.4	8.8	7.6
ECOLOGY	31	33	37	30	23	41	45	4.8	9.8	5.5
ENTOMOLOGY/PARASITOLOGY	62	76	54	34	34	47	32	-4.5	-31.9	-9.0
GENETICS	257	283	223	313	280	256	215	-.1	-16.0	-2.5
MICROBIOLOGY	734	779	664	669	640	542	437	-4.9	-19.4	-7.1
NUTRITION	270	244	184	216	185	159	124	-8.4	-22.0	-10.5
PATHOLOGY	289	295	244	183	194	190	201	-6.8	5.8	-5.1
PHARMACOLOGY	497	549	557	543	620	596	590	3.1	-1.0	2.5
PHYSIOLOGY	525	521	415	373	377	338	330	-7.1	-2.4	-6.4
ZOOLOGY	156	200	129	113	131	98	113	-7.5	15.3	-4.5
BIOSCIENCES, N.E.C.	46	56	51	59	106	100	143	13.8	43.0	17.6
HEALTH SCIENCES	4,583	5,135	5,390	6,296	6,794	6,825	6,290	6.9	-7.8	4.6
ANESTHESIOLOGY	1	5	1	0	0	0	0	-100.0	**	-100.0
CANCER/ONCOLOGY	53	34	30	40	33	33	0	-7.6	-100.0	-100.0
CARDIOLOGY	18	17	0	2	1	1	0	-38.2	-100.0	-100.0
DENTISTRY	93	122	83	57	85	75	51	-3.5	-32.0	-8.2
ENDOCRINOLOGY	5	13	10	6	7	8	10	8.1	25.0	10.4
GASTROENTEROLOGY	24	8	6	5	0	0	0	-100.0	**	-100.0
HEMATOLOGY	14	0	0	0	0	0	2	-100.0	**	-24.3
NEUROLOGY	102	160	143	132	165	137	127	5.0	-7.3	3.2
NURSING	1,372	1,869	2,594	3,560	3,414	3,506	3,441	16.9	-1.9	14.0
OBSTETRICS/GYNECOLOGY	28	12	6	11	12	2	2	-35.6	.0	-31.4
OPHTHALMOLOGY	11	10	6	6	2	10	4	-1.6	-60.0	-13.5
OTORHINOLARYNGOLOGY	37	26	21	7	4	2	2	-38.5	.0	-34.1
PEDIATRICS	68	47	35	39	47	46	64	-6.3	39.1	-.9
PHARMACEUTICAL SCIENCES	155	166	125	132	92	74	87	-11.6	17.6	-7.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,109	1,318	1,189	1,097	1,661	1,738	1,559	7.8	-10.3	5.0
PSYCHIATRY	99	33	27	41	25	9	6	-32.9	-33.3	-33.0
PULMONARY DISEASE	24	5	0	0	0	2	3	-33.9	50.0	-25.7
RADIOLOGY	109	85	60	63	49	47	56	-13.1	19.1	-9.1
SPEECH PATHOLOGY/AUDIOLOGY	622	650	599	645	641	569	489	-1.5	-14.1	-3.4
SURGERY	26	28	20	8	1	1	9	-41.9	800.0	-14.1
VETERINARY SCIENCES	43	41	38	30	21	24	20	-9.3	-16.7	-10.4
CLINICAL MEDICINE, N.E.C.	185	57	12	14	24	44	23	-21.3	-47.7	-25.8
HEALTH RELATED, N.E.C.	385	429	385	401	530	497	335	4.3	-32.6	-2.0
PSYCHOLOGY	3,071	2,924	2,788	2,582	1,959	1,782	1,468	-8.7	-17.6	-10.0
SOCIAL SCIENCES	3,591	3,309	2,976	2,807	2,828	2,658	2,321	-4.9	-12.7	-6.0
AGRICULTURAL ECONOMICS	100	104	79	81	40	50	56	-10.9	12.0	-7.9
ANTHROPOLOGY	465	417	399	342	278	261	222	-9.2	-14.9	-10.0
ECONOMICS (EXCEPT AGRICULTURAL)	307	272	225	227	190	195	168	-7.3	-13.8	-8.3
GEOGRAPHY	78	59	40	48	31	34	22	-12.9	-35.3	-16.5
HISTORY AND PHILOSOPHY OF SCIENCE	10	15	13	8	13	14	4	5.8	-71.4	-12.3
LINGUISTICS	112	104	98	80	77	79	89	-5.7	12.7	-3.2
POLITICAL SCIENCE	319	372	358	354	554	409	390	4.2	-4.6	2.9
SOCIOLOGY	764	689	536	405	365	317	266	-13.6	-16.1	-14.0
SOCIOLOGY/ANTHROPOLOGY	58	43	30	6	18	17	6	-18.5	-64.7	-27.7
SOCIAL SCIENCES, N.E.C.	1,378	1,234	1,198	1,256	1,262	1,282	1,098	-1.2	-14.4	-3.2

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED FELLOWSHIPS AND TRAINEESHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	18,361	18,541	18,587	19,518	19,758	20,469	20,919	1.8	2.2	1.9
ENGINEERING	3,110	2,998	3,113	3,190	3,255	3,602	4,048	2.5	12.4	3.8
AEROSPACE	98	105	87	79	74	77	85	-3.9	10.4	-2.0
AGRICULTURAL	55	29	30	65	64	78	39	6.0	-50.0	-4.8
BIOMEDICAL	48	45	52	32	53	39	66	-3.4	69.2	4.7
CHEMICAL	547	523	552	572	571	587	691	1.2	17.7	3.4
CIVIL	422	426	435	443	469	448	585	1.0	30.6	4.8
ELECTRICAL	672	568	608	643	619	753	901	1.9	19.7	4.3
ENGINEERING SCIENCE	127	104	133	134	134	135	122	1.0	-9.6	-.6
INDUSTRIAL	235	323	205	289	216	234	233	-.1	-.4	-.1
MECHANICAL	414	320	350	376	460	493	566	3.0	14.8	4.6
METALLURGICAL/MATERIALS	172	155	183	164	164	220	225	4.2	2.3	3.9
MINING	36	30	67	48	28	38	51	.9	34.2	5.1
NUCLEAR	70	158	162	147	109	137	119	11.8	-13.1	7.9
PETROLEUM	44	54	99	81	68	66	66	7.0	.0	6.0
ENGINEERING, N.E.C.	170	156	150	117	226	297	299	9.7	.7	8.4
PHYSICAL SCIENCES	1,816	1,688	1,772	1,928	1,685	1,658	1,788	-1.5	7.8	-.2
ASTRONOMY	85	85	84	85	76	79	59	-1.2	-25.3	-5.1
CHEMISTRY	1,019	927	1,001	1,075	1,015	940	1,059	-1.3	12.7	.6
PHYSICS	711	676	683	768	590	637	666	-1.8	4.6	-.9
PHYSICAL SCIENCES, N.E.C.	1	0	4	0	4	2	4	12.2	100.0	21.9
ENVIRONMENTAL SCIENCES	631	619	633	725	607	638	740	.2	16.0	2.3
ATMOSPHERIC SCIENCES	51	42	44	31	27	17	13	-16.7	-23.5	-17.7
GEOSCIENCES	431	422	458	580	412	458	523	1.0	14.2	2.8
OCEANOGRAPHY	96	104	80	64	97	110	127	2.3	15.5	4.1
ENVIRONMENTAL SCIENCES, N.E.C.	53	51	51	50	71	53	77	.0	45.3	5.5
MATHEMATICAL/COMPUTER SCIENCES	1,034	1,051	1,031	1,015	1,127	1,016	1,094	-.3	7.7	.8
COMPUTER SCIENCE	207	252	239	214	349	289	396	5.7	37.0	9.8
MATHEMATICS AND APPLIED MATHEMATICS	683	684	671	707	644	573	593	-2.9	3.5	-2.0
STATISTICS	144	115	121	94	134	154	105	1.1	-31.8	-4.4
LIFE SCIENCES	4,499	4,859	4,904	5,060	4,953	5,217	5,482	2.5	5.1	2.9
AGRICULTURAL SCIENCES	492	669	598	647	543	612	658	3.7	7.5	4.2
BIOLOGICAL SCIENCES	2,569	2,762	3,049	3,054	2,981	3,250	3,270	4.0	.6	3.5
ANATOMY	107	115	116	123	135	155	154	6.4	-.6	5.3
BIOCHEMISTRY	368	395	476	385	400	352	361	-.7	2.6	-.3
BIOLOGY	510	620	710	718	613	623	512	3.4	-17.8	.1
BIOMETRY/EPIDEMIOLOGY	76	76	84	104	63	61	106	-3.6	73.8	4.9
BIOPHYSICS	67	62	43	48	40	38	63	-9.0	65.8	-.9
BOTANY	211	220	225	224	206	177	159	-2.9	-10.2	-4.0
CELL BIOLOGY	83	74	81	81	72	116	97	9.3	-16.4	5.2
ECOLOGY	41	51	45	44	59	78	81	11.3	3.8	10.2
ENTOMOLOGY/PARASITOLOGY	75	52	67	54	96	107	134	6.1	25.2	8.6
GENETICS	64	56	67	82	56	93	79	6.4	-15.1	3.1
MICROBIOLOGY	276	266	313	311	322	366	390	4.8	6.6	5.1
NUTRITION	155	174	177	191	192	223	236	6.3	5.8	6.2
PATHOLOGY	108	123	139	133	140	141	204	4.5	44.7	9.5
PHARMACOLOGY	113	158	172	198	235	267	297	15.4	11.2	14.8
PHYSIOLOGY	169	176	189	202	184	224	198	4.8	-11.6	2.3
ZOOLOGY	102	121	95	105	68	102	84	.0	-17.6	-2.7
BIOSCIENCES, N.E.C.	59	23	50	51	100	127	115	13.6	-9.4	10.0
HEALTH SCIENCES	1,438	1,428	1,257	1,359	1,429	1,355	1,554	-1.0	14.7	1.1
ANESTHESIOLOGY	12	50	3	1	3	0	1	-100.0	**	-29.9
CANCER/ONCOLOGY	0	1	1	0	1	1	0	**	-100.0	**
CARDIOLOGY	18	3	0	1	0	10	0	-9.3	-100.0	-100.0
DENTISTRY	114	113	118	123	117	99	146	-2.3	47.5	3.6
ENDOCRINOLOGY	7	1	3	1	13	12	10	9.4	-16.7	5.2
GASTROENTEROLOGY	19	3	2	3	0	0	2	-100.0	**	-27.5
HEMATOLOGY	7	0	0	1	5	1	0	-27.7	-100.0	-100.0
NEUROLOGY	42	45	54	72	68	54	66	4.3	22.2	6.7
NURSING	43	75	99	189	211	154	146	23.7	-5.2	19.1
OBSTETRICS/GYNECOLOGY	18	15	19	3	8	0	4	-100.0	**	-19.3
OPHTHALMOLOGY	18	13	1	0	0	0	2	-100.0	**	-26.9
OTORHINOLARYNGOLOGY	15	12	25	18	10	9	10	-8.2	11.1	-5.6
PEDIATRICS	16	24	13	11	6	18	19	2.0	5.6	2.5
PHARMACEUTICAL SCIENCES	127	105	107	98	144	157	186	3.6	18.5	5.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	355	258	215	223	157	220	264	-7.7	20.0	-4.1
PSYCHIATRY	32	27	22	19	24	28	19	-2.2	-32.1	-7.2
PULMONARY DISEASE	18	2	0	3	0	11	6	-7.9	-45.5	-14.5
RADIOLOGY	42	68	52	53	35	28	52	-6.5	85.7	3.1
SPEECH PATHOLOGY/AUDIOLOGY	196	267	227	237	284	226	294	2.4	30.1	6.0
SURGERY	39	57	53	37	33	31	48	-3.8	54.8	3.0
VETERINARY SCIENCES	40	60	67	60	87	99	79	16.3	-20.2	10.2
CLINICAL MEDICINE, N.E.C.	74	84	52	77	89	76	85	.4	11.8	2.0
HEALTH RELATED, N.E.C.	186	145	124	129	134	121	115	-6.9	-5.0	-6.6
PSYCHOLOGY	1,495	1,552	1,533	1,601	1,641	1,664	1,702	1.8	2.3	1.9
SOCIAL SCIENCES	5,776	5,774	5,601	5,999	6,490	6,674	6,065	2.4	-9.1	.7
AGRICULTURAL ECONOMICS	133	146	103	208	109	161	142	3.2	-11.8	.9
ANTHROPOLOGY	497	488	500	500	559	554	517	1.8	-6.7	.6
ECONOMICS (EXCEPT AGRICULTURAL)	1,104	1,275	1,237	1,234	1,180	1,171	957	1.0	-18.3	-2.0
GEOGRAPHY	193	219	190	210	168	233	165	3.2	-29.2	-2.2
HISTORY AND PHILOSOPHY OF SCIENCE	74	76	77	60	55	53	53	-5.4	.0	-4.7
LINGUISTICS	250	265	327	328	466	304	276	3.3	-9.2	1.4
POLITICAL SCIENCE	1,592	1,610	1,497	1,571	1,765	2,225	2,088	5.7	-6.2	4.0
SOCIOLOGY	671	663	672	688	819	729	727	1.4	-.3	1.2
SOCIOLOGY/ANTHROPOLOGY	47	77	99	71	74	40	39	-2.7	-2.5	-2.6
SOCIAL SCIENCES, N.E.C.	1,215	955	899	1,129	1,295	1,204	1,101	-.2	-8.6	-1.4

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-30. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH RESEARCH ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	39,601	40,136	42,717	43,896	48,410	50,815	51,994	4.2	2.3	4.0
ENGINEERING	11,103	11,040	11,427	11,946	12,941	14,037	14,476	4.0	3.1	3.9
AEROSPACE	534	512	484	497	503	580	590	1.4	1.7	1.4
AGRICULTURAL	212	302	276	314	348	364	403	9.4	10.7	9.6
BIOMEDICAL	174	197	191	195	205	213	248	3.-	16.4	5.2
CHEMICAL	1,289	1,362	1,436	1,450	1,687	1,899	2,083	6.7	9.7	7.1
CIVIL	1,836	1,723	1,867	1,974	1,939	2,118	2,146	2.4	1.3	2.3
ELECTRICAL	2,187	2,183	2,153	2,435	2,589	2,830	2,835	4.4	.2	3.8
ENGINEERING SCIENCE	490	487	472	422	452	468	528	-.8	12.8	1.1
INDUSTRIAL	616	516	478	457	541	588	542	-.8	-7.8	-1.8
MECHANICAL	1,696	1,636	1,778	1,762	1,963	2,045	2,108	3.2	3.1	3.2
METALLURGICAL/MATERIALS	1,018	1,070	1,105	1,150	1,319	1,387	1,553	5.3	12.0	6.2
MINING	133	124	148	121	88	124	161	-1.2	29.8	2.8
NUCLEAR	405	473	471	507	546	516	486	4.1	-5.8	2.6
PETROLEUM	59	63	74	92	118	104	118	9.9	13.5	10.4
ENGINEERING, N.E.C.	454	392	494	570	643	801	675	9.9	-15.7	5.8
PHYSICAL SCIENCES	6,395	6,422	6,756	6,784	7,691	8,235	8,494	4.3	3.1	4.1
ASTRONOMY	287	276	279	264	272	270	263	-1.0	-2.6	-1.2
CHEMISTRY	3,111	3,233	3,521	3,597	4,085	4,541	4,730	6.5	4.2	6.2
PHYSICS	2,960	2,880	2,936	2,904	3,318	3,420	3,486	2.4	1.9	2.4
PHYSICAL SCIENCES, N.E.C.	37	31	20	19	16	4	15	-31.0	275.0	-12.1
ENVIRONMENTAL SCIENCES	2,665	2,816	3,141	3,194	3,451	3,596	3,369	5.1	-6.3	3.4
ATMOSPHERIC SCIENCES	369	419	437	450	483	498	460	5.1	-7.6	3.2
GEOSCIENCES	1,320	1,355	1,613	1,623	1,876	1,996	1,820	7.1	-8.8	4.7
OCEANOGRAPHY	771	801	821	841	829	818	799	1.0	-2.3	.5
ENVIRONMENTAL SCIENCES, N.E.C.	205	241	270	280	263	284	290	5.6	2.1	5.1
MATHEMATICAL/COMPUTER SCIENCES	1,414	1,375	1,528	1,504	1,615	1,790	1,785	4.0	-.3	3.4
COMPUTER SCIENCE	747	746	782	781	861	1,065	1,087	6.1	2.1	5.5
MATHEMATICS AND APPLIED MATHEMATICS	380	366	458	417	463	441	438	2.5	-.7	2.1
STATISTICS	287	263	288	306	291	284	260	-.2	-8.5	-1.4
LIFE SCIENCES	10,851	11,310	12,592	13,081	15,027	15,501	15,975	6.1	3.1	5.7
AGRICULTURAL SCIENCES	3,487	3,696	3,945	4,068	4,423	4,513	4,676	4.4	3.6	4.3
BIOLOGICAL SCIENCES	6,521	6,758	7,646	7,944	9,160	9,461	9,644	6.4	1.9	5.7
ANATOMY	51	63	85	97	152	138	129	18.0	-6.5	14.2
BIOCHEMISTRY	1,045	1,021	1,185	1,238	1,456	1,440	1,531	5.5	6.3	5.6
BIOLOGY	772	845	1,042	947	1,154	1,302	1,314	9.1	.9	7.9
BIOMETRY/EPIDEMIOLOGY	61	62	83	89	88	117	81	11.5	-30.8	4.1
BIOPHYSICS	141	179	185	189	194	173	136	3.5	-21.4	-.5
BOTANY	935	1,011	1,108	1,180	1,269	1,282	1,261	5.4	-1.6	4.4
CELL BIOLOGY	86	82	100	138	173	173	227	12.4	31.2	14.9
ECOLOGY	156	157	212	249	247	272	221	9.7	-18.8	5.1
ENTOMOLOGY/PARASITOLOGY	610	656	661	672	819	889	803	6.5	-9.7	4.0
GENETICS	137	138	159	165	191	235	252	9.4	7.2	9.1
MICROBIOLOGY	597	646	725	731	877	920	1,005	7.5	9.2	7.7
NUTRITION	850	765	881	970	1,051	1,119	1,098	4.7	-1.9	3.7
PATHOLOGY	90	82	106	95	164	152	148	9.1	-2.6	7.4
PHARMACOLOGY	231	268	277	320	382	346	423	7.0	22.3	9.0
PHYSIOLOGY	240	286	339	395	384	409	455	9.3	11.2	9.6
ZOOLOGY	497	474	474	443	478	380	438	-4.4	15.3	-1.8
BIOSCIENCES, N.E.C.	22	23	24	26	81	114	122	31.5	7.0	27.7
HEALTH SCIENCES	843	856	1,001	1,069	1,444	1,527	1,655	10.4	8.4	10.1
ANESTHESIOLOGY	0	0	1	0	0	0	0	**	**	**
CANCER/ONCOLOGY	16	20	10	9	10	9	0	-9.1	-100.0	-100.0
CARDIOLOGY	1	1	0	0	2	6	5	34.8	-16.7	25.8
DENTISTRY	0	13	32	14	35	34	17	**	-50.0	**
ENDOCRINOLOGY	2	6	2	3	8	10	12	30.8	20.0	29.2
GASTROENTEROLOGY	1	0	0	0	0	0	1	-100.0	**	.0
HEMATOLOGY	1	0	1	4	0	1	1	.0	.0	.0
NEUROLOGY	34	53	44	51	74	75	54	14.1	-28.0	6.8
NURSING	22	13	10	28	75	101	107	28.9	5.9	25.4
OBSTETRICS/GYNECOLOGY	3	11	14	7	8	0	0	-100.0	**	-100.0
OPHTHALMOLOGY	10	0	0	1	0	3	7	-18.2	133.3	-5.0
OTORHINOLARYNGOLOGY	5	2	7	6	4	0	3	-100.0	**	-7.0
PEDIATRICS	13	7	7	3	0	0	0	-100.0	**	-100.0
PHARMACEUTICAL SCIENCES	197	185	223	256	392	400	441	12.5	10.2	12.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	68	109	109	97	162	185	232	18.2	25.4	19.2
PSYCHIATRY	8	6	2	0	20	8	14	.0	75.0	8.3
PULMONARY DISEASE	3	0	0	0	0	0	0	-100.0	**	-100.0
RADIOLOGY	36	67	76	36	31	45	26	3.8	-42.2	-4.5
SPEECH PATHOLOGY/AUDIOLOGY	205	164	206	235	235	271	249	4.8	-8.1	2.8
SURGERY	12	4	10	9	0	4	8	-16.7	100.0	-5.6
VETERINARY SCIENCES	125	142	177	237	212	205	259	8.6	26.3	11.0
CLINICAL MEDICINE, N.E.C.	33	9	19	22	37	31	36	-1.0	16.1	1.3
HEALTH RELATED, N.E.C.	48	44	51	51	139	139	183	19.4	31.7	21.1
PSYCHOLOGY	2,291	2,208	2,244	2,294	2,332	2,335	2,657	.3	13.8	2.1
SOCIAL SCIENCES	4,882	4,965	5,029	5,093	5,353	5,321	5,238	1.4	-1.6	1.0
AGRICULTURAL ECONOMICS	800	889	868	952	979	962	936	3.1	-2.7	2.3
ANTHROPOLOGY	350	378	339	392	375	349	304	*	-12.9	-2.0
ECONOMICS (EXCEPT AGRICULTURAL)	1,162	1,148	1,176	1,151	1,158	1,164	1,131	*	-2.8	-.4
GEOGRAPHY	217	218	256	233	216	256	232	2.8	-9.4	1.0
HISTORY AND PHILOSOPHY OF SCIENCE	9	2	10	12	11	14	16	7.6	14.3	8.6
LINGUISTICS	125	103	142	104	135	139	180	1.8	29.5	5.3
POLITICAL SCIENCE	788	801	785	709	887	828	848	.8	2.4	1.1
SOCIOLOGY	750	748	848	809	745	734	737	-.4	.4	-.2
SOCIOLOGY/ANTHROPOLOGY	109	129	94	93	101	90	125	-3.1	38.9	2.0
SOCIAL SCIENCES, N.E.C.	572	549	511	638	746	785	729	5.4	-7.1	3.5

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-31. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED RESEARCH ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	22,307	23,077	24,420	25,179	27,841	29,080	28,884	4.5	-0.7	3.8
ENGINEERING	6,781	6,980	7,296	7,616	8,093	8,569	8,547	4.0	-.3	3.4
AEROSPACE	406	385	330	366	355	375	406	-1.3	8.3	.0
AGRICULTURAL	54	97	80	127	114	110	132	12.6	20.0	13.6
BIOMEDICAL	95	113	122	104	129	110	122	2.5	10.9	3.6
CHEMICAL	696	811	850	866	917	1,068	1,105	7.4	3.5	6.8
CIVIL	962	911	1,034	1,055	1,136	1,253	1,098	4.5	-12.4	1.9
ELECTRICAL	1,646	1,697	1,665	1,828	1,875	1,964	1,905	3.0	-3.0	2.1
ENGINEERING SCIENCE	382	386	359	262	366	379	410	-.1	8.2	1.0
INDUSTRIAL	266	220	172	212	230	257	234	-.6	-8.9	-1.8
MECHANICAL	1,010	1,045	1,185	1,189	1,273	1,240	1,293	3.5	4.3	3.6
METALLURGICAL/MATERIALS	740	740	823	836	1,013	1,014	1,128	5.4	11.2	6.2
MINING	79	83	112	82	68	90	109	2.2	21.1	4.7
NUCLEAR	162	191	216	248	268	240	243	6.8	1.2	6.0
PETROLEUM	11	12	18	39	40	44	45	26.0	2.3	22.3
ENGINEERING, N.E.C.	272	269	330	402	309	425	317	7.7	-25.4	2.2
PHYSICAL SCIENCES	5,299	5,470	5,656	5,746	6,440	6,932	7,230	4.6	4.3	4.5
ASTRONOMY	242	235	247	223	225	236	229	-.4	-3.0	-.8
CHEMISTRY	2,388	2,664	2,827	2,883	3,285	3,733	3,865	7.7	3.5	7.1
PHYSICS	2,669	2,563	2,576	2,626	2,921	2,959	3,134	1.8	5.9	2.4
PHYSICAL SCIENCES, N.E.C.	13	8	6	14	9	4	2	-17.8	-50.0	-23.5
ENVIRONMENTAL SCIENCES	1,941	2,073	2,245	2,276	2,609	2,632	2,339	5.2	-11.1	2.7
ATMOSPHERIC SCIENCES	303	334	394	420	457	454	411	7.0	-9.5	4.5
GEOSCIENCES	959	1,004	1,111	1,155	1,398	1,439	1,191	7.0	-17.2	3.1
OCEANOGRAPHY	547	587	572	567	610	585	556	1.1	-5.0	.2
ENVIRONMENTAL SCIENCES, N.E.C.	132	148	168	134	144	154	181	2.6	17.5	4.6
MATHEMATICAL/COMPUTER SCIENCES	828	752	795	877	1,002	1,095	1,045	4.8	-4.6	3.4
COMPUTER SCIENCE	477	452	425	511	623	717	726	7.0	1.3	6.2
MATHEMATICS AND APPLIED MATHEMATICS	207	203	249	225	268	259	244	3.8	-5.8	2.4
STATISTICS	144	97	121	141	111	119	75	-3.1	-37.0	-8.9
LIFE SCIENCES	5,025	5,361	6,037	6,172	7,076	7,488	7,424	6.9	-.9	5.7
AGRICULTURAL SCIENCES	1,219	1,323	1,339	1,410	1,460	1,545	1,492	4.0	-3.4	2.9
BIOLOGICAL SCIENCES	3,367	3,538	4,164	4,209	4,944	5,277	5,236	7.8	-.8	6.5
ANATOMY	25	30	55	62	76	78	78	20.9	.0	17.7
BIOCHEMISTRY	714	654	832	865	1,020	1,023	1,110	6.2	8.5	6.5
BIOLOGY	450	526	701	604	784	913	871	12.5	-4.6	9.9
BIOMETRY/EPIDEMIOLOGY	37	46	53	60	53	81	47	13.9	-42.0	3.5
BIOPHYSICS	103	133	140	143	137	117	106	2.1	-9.4	.4
BOTANY	310	359	406	451	504	535	438	9.5	-18.1	5.1
CELL BIOLOGY	62	66	53	94	131	135	174	13.8	28.9	15.9
ECOLOGY	61	87	109	125	141	148	112	15.9	-24.3	9.1
ENTOMOLOGY/PARASITOLOGY	234	238	245	239	215	287	258	3.5	-10.1	1.4
GENETICS	64	87	86	80	92	127	121	12.1	-4.7	9.5
MICROBIOLOGY	384	415	474	445	614	662	676	9.5	2.1	8.4
NUTRITION	328	296	348	339	395	425	411	4.4	-3.3	3.3
PATHOLOGY	53	45	47	52	81	78	86	6.7	10.3	7.2
PHARMACOLOGY	122	148	146	178	197	171	203	5.8	18.7	7.5
PHYSIOLOGY	130	143	166	215	187	222	265	9.3	19.4	10.7
ZOOLOGY	282	261	296	245	286	240	220	-2.7	-8.3	-3.5
BIOSCIENCES, N.E.C.	8	4	7	12	31	35	60	27.9	71.4	33.4
HEALTH SCIENCES	439	500	534	553	672	666	696	7.2	4.5	6.8
ANESTHESIOLOGY	0	0	1	0	0	0	0	**	**	**
CANCER/ONCOLOGY	16	20	10	9	10	9	0	-9.1	-100.0	-100.0
CARDIOLOGY	1	1	0	0	2	3	0	20.1	-100.0	-100.0
DENTISTRY	0	5	12	5	17	9	12	**	33.3	**
ENDOCRINOLOGY	2	3	2	3	7	10	12	30.8	20.0	29.2
GASTROENTEROLOGY	1	0	0	0	0	0	0	-100.0	**	-100.0
HEMATOLOGY	1	0	0	0	0	0	0	-100.0	**	-100.0
NEUROLOGY	27	44	37	39	61	55	44	12.6	-20.0	7.2
NURSING	13	1	1	11	36	34	48	17.4	41.2	20.5
OBSTETRICS/GYNECOLOGY	0	8	14	6	6	0	0	**	**	**
OPHTHALMOLOGY	5	0	0	0	0	0	7	-100.0	**	4.9
OTORHINOLARYNGOLOGY	5	2	5	5	4	0	3	-100.0	**	-7.0
PEDIATRICS	11	6	7	2	0	0	0	-100.0	**	-100.0
PHARMACEUTICAL SCIENCES	112	113	155	157	181	193	219	9.5	13.5	10.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	45	58	52	51	82	92	75	12.7	-18.5	7.6
PSYCHIATRY	1	6	1	0	20	7	11	38.3	57.1	40.9
PULMONARY DISEASE	1	0	0	0	0	0	0	-100.0	**	-100.0
RADIOLOGY	26	52	47	24	18	25	16	-.7	-36.0	-6.7
SPEECH PATHOLOGY/AUDIOLOGY	98	87	90	118	111	114	114	2.6	.0	2.2
SURGERY	10	1	8	9	0	2	7	-23.5	250.0	-5.0
VETERINARY SCIENCES	29	59	51	73	68	72	82	16.4	13.9	16.0
CLINICAL MEDICINE, N.E.C.	19	4	11	13	14	11	9	-8.7	-18.2	-10.1
HEALTH RELATED, N.E.C.	16	30	30	28	35	30	37	11.0	23.3	12.7
PSYCHOLOGY	1,042	1,004	970	1,029	1,149	911	1,018	-2.2	11.7	-.3
SOCIAL SCIENCES	1,391	1,437	1,421	1,463	1,472	1,453	1,281	.7	-11.8	-1.2
AGRICULTURAL ECONOMICS	277	310	294	373	338	364	359	4.7	-1.4	3.8
ANTHROPOLOGY	110	156	118	114	128	105	123	-.8	17.1	1.6
ECONOMICS (EXCEPT AGRICULTURAL)	291	296	234	270	288	284	173	-.4	-39.1	-7.2
GEOGRAPHY	85	58	79	66	64	78	71	-1.4	-9.0	-2.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	3	5	2	1	0	**	-100.0	**
LINGUISTICS	55	40	80	45	44	45	50	-3.3	11.1	-1.4
POLITICAL SCIENCE	89	91	102	91	107	89	48	.0	-46.1	-8.4
SOCIOLOGY	274	288	292	293	302	314	315	2.3	.3	2.0
SOCIOLOGY/ANTHROPOLOGY	28	20	19	19	20	18	11	-7.1	-38.9	-12.5
SOCIAL SCIENCES, N.E.C.	182	178	200	187	179	155	131	-2.6	-15.5	-4.6

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-32. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED RESEARCH ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	17,294	17,059	18,297	18,717	20,569	21,735	23,110	3.9	6.3	4.2
ENGINEERING	4,322	4,060	4,131	4,330	4,848	5,468	5,929	4.0	8.4	4.6
AEROSPACE	128	127	154	131	148	205	184	8.2	-10.2	5.3
AGRICULTURAL	158	205	196	187	234	254	271	8.2	6.7	8.0
BIOMEDICAL	79	84	69	91	76	103	126	4.5	22.3	6.9
CHEMICAL	593	551	586	584	770	831	978	5.8	17.7	7.4
CIVIL	874	812	833	919	803	865	1,048	-.2	21.2	2.6
ELECTRICAL	541	486	488	607	714	866	930	8.2	7.4	8.0
ENGINEERING SCIENCE	108	101	113	160	86	89	118	-3.2	32.6	1.3
INDUSTRIAL	350	296	306	245	311	331	308	-.9	-6.9	-1.8
MECHANICAL	686	591	593	573	690	805	815	2.7	1.2	2.5
METALLURGICAL/MATERIALS	278	310	282	314	306	373	425	5.0	13.9	6.3
MINING	54	41	36	39	20	34	52	-7.4	52.9	-.5
NUCLEAR	243	282	255	259	278	276	243	2.1	-12.0	.0
PETROLEUM	48	51	56	53	78	60	73	3.8	21.7	6.2
ENGINEERING, N.E.C.	182	123	164	168	334	376	358	12.9	-4.8	10.1
PHYSICAL SCIENCES	1,096	952	1,100	1,038	1,251	1,303	1,264	2.9	-3.0	2.1
ASTRONOMY	45	43	32	41	47	34	34	-4.6	.0	-3.9
CHEMISTRY	723	569	694	714	800	808	865	1.9	7.1	2.6
PHYSICS	304	317	360	278	397	461	352	7.2	-23.6	2.1
PHYSICAL SCIENCES, N.E.C.	24	23	14	5	7	0	13	-100.0	**	-8.4
ENVIRONMENTAL SCIENCES	724	743	896	918	842	964	1,030	4.9	6.8	5.2
ATMOSPHERIC SCIENCES	66	85	43	30	26	44	49	-6.5	11.4	-4.2
GEOSCIENCES	361	351	502	468	478	557	629	7.5	12.9	8.3
OCEANOGRAPHY	224	214	249	274	219	233	243	.7	4.3	1.2
ENVIRONMENTAL SCIENCES, N.E.C.	73	93	102	146	119	130	109	10.1	-16.2	5.9
MATHEMATICAL/COMPUTER SCIENCES	586	623	733	627	613	695	740	2.9	6.5	3.4
COMPUTER SCIENCE	270	294	357	270	238	348	361	4.3	3.7	4.2
MATHEMATICS AND APPLIED MATHEMATICS	173	163	209	192	195	182	194	.8	6.6	1.7
STATISTICS	143	166	167	165	180	165	185	2.4	12.1	3.7
LIFE SCIENCES	5,826	5,949	6,555	6,909	7,951	8,013	8,551	5.5	6.7	5.6
AGRICULTURAL SCIENCES	2,268	2,373	2,606	2,658	2,963	2,968	3,184	4.6	7.3	5.0
BIOLOGICAL SCIENCES	3,154	3,220	3,482	3,735	4,216	4,184	4,408	4.8	5.4	4.9
ANATOMY	26	33	30	35	76	60	51	15.0	-15.0	10.1
BIOCHEMISTRY	331	367	353	373	436	417	421	3.9	1.0	3.5
BIOLOGY	322	319	341	343	370	389	443	3.2	13.9	4.7
BIOMETRY/EPIDEMIOLOGY	24	16	30	29	35	36	34	7.0	-5.6	5.1
BIOPHYSICS	38	46	45	46	57	56	30	6.7	-46.4	-3.3
BOTANY	625	652	702	729	765	747	823	3.0	10.2	4.0
CELL BIOLOGY	24	16	47	44	42	38	53	8.0	39.5	12.0
ECOLOGY	95	70	103	124	106	124	109	4.5	-12.1	2.0
ENTOMOLOGY/PARASITOLOGY	376	418	416	433	604	602	545	8.2	-9.5	5.4
GENETICS	73	51	73	85	99	108	131	6.7	21.3	8.7
MICROBIOLOGY	213	231	251	286	263	258	329	3.2	27.5	6.4
NUTRITION	522	469	533	631	656	694	687	4.9	-1.0	4.0
PATHOLOGY	37	37	59	43	83	74	62	12.2	-16.2	7.7
PHARMACOLOGY	109	120	131	142	185	175	220	8.2	25.7	10.6
PHYSIOLOGY	110	143	173	180	197	187	190	9.2	1.6	8.1
ZOOLOGY	215	213	178	198	192	140	218	-6.9	55.7	.2
BIOSCIENCES, N.E.C.	14	19	17	14	50	79	62	33.4	-21.5	23.7
HEALTH SCIENCES	404	356	467	516	772	861	959	13.4	11.4	13.1
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	3	5	**	66.7	**
DENTISTRY	0	8	20	9	18	25	5	**	-80.0	**
ENDOCRINOLOGY	0	3	0	0	1	0	0	**	**	**
GASTROENTEROLOGY	0	0	0	0	0	0	1	**	**	**
HEMATOLOGY	0	0	1	4	0	1	1	**	.0	**
NEUROLOGY	7	9	7	12	13	20	10	19.1	-50.0	5.2
NURSING	9	12	9	17	39	67	59	39.7	-11.9	30.8
OBSTETRICS/GYNECOLOGY	3	3	0	1	2	0	0	-100.0	**	-100.0
OPHTHALMOLOGY	5	0	0	1	0	3	0	-8.2	-100.0	-100.0
OTORHINOLARYNGOLOGY	0	0	2	1	0	0	0	**	**	**
PEDIATRICS	2	1	0	1	0	0	0	-100.0	**	-100.0
PHARMACEUTICAL SCIENCES	85	72	68	99	211	207	222	16.0	7.2	14.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	23	51	57	46	80	93	157	26.2	68.8	31.6
PSYCHIATRY	7	0	1	0	0	1	3	-27.7	200.0	-11.4
PULMONARY DISEASE	2	0	0	0	0	0	0	-100.0	**	-100.0
RADIOLOGY	10	15	29	12	13	20	10	12.2	-50.0	.0
SPEECH PATHOLOGY/AUDIOLOGY	107	77	116	117	124	157	135	6.6	-14.0	3.4
SURGERY	2	3	2	0	0	2	1	.0	-50.0	-9.4
VETERINARY SCIENCES	96	83	126	164	144	133	177	5.6	33.1	9.1
CLINICAL MEDICINE, N.E.C.	14	5	8	9	23	20	27	6.1	35.0	9.8
HEALTH RELATED, N.E.C.	32	14	21	23	104	109	146	22.7	33.9	24.2
PSYCHOLOGY	1,249	1,204	1,274	1,265	1,183	1,424	1,639	2.2	15.1	4.0
SOCIAL SCIENCES	3,491	3,528	3,608	3,630	3,881	3,868	3,957	1.7	2.3	1.8
AGRICULTURAL ECONOMICS	523	579	574	579	641	598	577	2.3	-3.5	1.4
ANTHROPOLOGY	240	222	221	218	247	244	181	.3	-25.8	-4.0
ECONOMICS (EXCEPT AGRICULTURAL)	871	852	942	881	870	880	958	.2	8.9	1.4
GEOGRAPHY	132	160	177	167	152	178	161	5.1	-9.6	2.9
HISTORY AND PHILOSOPHY OF SCIENCE	9	2	7	7	9	13	16	6.3	23.1	8.6
LINGUISTICS	70	63	62	59	91	94	130	5.0	38.3	9.2
POLITICAL SCIENCE	699	710	683	618	780	739	800	.9	8.3	1.9
SOCIOLOGY	476	460	556	516	443	420	422	-2.1	.5	-1.7
SOCIOLOGY/ANTHROPOLOGY	81	109	75	74	81	72	114	-1.9	58.3	5.0
SOCIAL SCIENCES, N.E.C.	390	371	311	451	567	630	598	8.3	-5.1	6.3

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-33. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH TEACHING ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	46,192	47,348	48,312	48,665	49,588	51,862	53,758	1.9	3.7	2.2
ENGINEERING	5,196	5,405	5,617	5,794	6,509	7,281	8,288	5.8	13.8	6.9
AEROSPACE	182	175	164	155	178	189	218	.6	15.3	2.6
AGRICULTURAL	35	33	44	37	57	55	42	7.8	-23.6	2.6
BIOMEDICAL	50	70	62	66	91	103	94	12.8	-8.7	9.4
CHEMICAL	590	635	640	704	777	849	956	6.3	12.6	7.1
CIVIL	745	788	873	939	989	1,075	1,160	6.3	7.9	6.5
ELECTRICAL	1,585	1,616	1,623	1,565	1,862	2,081	2,446	4.6	17.5	6.4
ENGINEERING SCIENCE	136	153	168	180	145	191	192	5.8	.5	5.0
INDUSTRIAL	384	408	484	452	502	524	624	5.3	19.1	7.2
MECHANICAL	844	857	879	1,000	1,162	1,262	1,447	6.9	14.7	8.0
METALLURGICAL/MATERIALS	183	202	201	204	194	231	242	4.0	4.8	4.1
MINING	34	36	34	42	40	32	59	-1.0	84.4	8.2
NUCLEAR	123	117	125	108	129	99	111	-3.6	12.1	-1.5
PETROLEUM	19	14	10	26	36	46	53	15.9	15.2	15.8
ENGINEERING, N.E.C.	286	301	310	316	387	544	644	11.3	18.4	12.3
PHYSICAL SCIENCES	10,058	10,185	10,201	10,129	9,572	9,893	9,918	-.3	.3	-.2
ASTRONOMY	164	174	154	155	170	174	181	1.0	4.0	1.4
CHEMISTRY	6,206	6,351	6,458	6,452	6,142	6,303	6,180	.3	-2.0	-.1
PHYSICS	3,665	3,639	3,566	3,504	3,244	3,398	3,539	-1.3	4.1	-.5
PHYSICAL SCIENCES, N.E.C.	23	21	23	18	16	18	18	-4.0	.0	-3.4
ENVIRONMENTAL SCIENCES	2,020	2,166	2,225	2,211	2,457	2,535	2,495	3.9	-1.6	3.1
ATMOSPHERIC SCIENCES	75	75	85	76	98	94	83	3.8	-11.7	1.5
GEOSCIENCES	1,661	1,748	1,802	1,765	1,972	2,032	2,017	3.4	-.7	2.8
OCEANOGRAPHY	112	108	133	142	132	146	129	4.5	-11.6	2.0
ENVIRONMENTAL SCIENCES, N.E.C.	172	235	205	228	255	263	266	7.3	1.1	6.4
MATHEMATICAL/COMPUTER SCIENCES	6,390	6,491	6,575	6,345	6,445	6,786	7,278	1.0	7.3	1.9
COMPUTER SCIENCE	806	902	1,005	990	1,263	1,428	1,771	10.0	24.0	11.9
MATHEMATICS AND APPLIED MATHEMATICS	5,164	5,094	5,023	4,830	4,605	4,733	4,871	-1.4	2.9	-.8
STATISTICS	420	495	547	525	577	625	636	6.8	1.8	6.1
LIFE SCIENCES	10,808	11,213	11,580	11,875	11,599	12,004	11,720	1.8	-2.4	1.2
AGRICULTURAL SCIENCES	593	691	783	836	825	892	793	7.0	-11.1	4.2
BIOLOGICAL SCIENCES	8,537	8,795	9,076	9,112	8,780	9,014	8,874	.9	-1.6	.6
ANATOMY	237	261	307	310	331	286	309	3.2	8.0	3.9
BIOCHEMISTRY	562	565	590	625	577	676	686	3.1	1.5	2.9
BIOLOGY	3,015	3,207	3,329	3,390	3,218	3,361	3,204	1.8	-4.7	.9
BIOMETRY/EPIDEMIOLOGY	20	32	40	40	46	45	52	14.5	15.6	14.6
BIOPHYSICS	47	53	37	37	28	46	38	-.4	-17.4	-3.0
BOTANY	921	903	919	900	911	906	836	-.3	-7.7	-1.4
CELL BIOLOGY	121	159	129	114	88	93	112	-4.3	20.4	-1.1
ECOLOGY	173	225	271	297	290	297	319	9.4	7.4	9.1
ENTOMOLOGY/PARASITOLOGY	126	140	156	149	159	163	168	4.4	3.1	4.2
GENETICS	103	97	125	145	106	111	119	1.3	7.2	2.1
MICROBIOLOGY	851	858	890	922	764	825	850	-.5	3.0	*
NUTRITION	213	225	224	264	280	280	265	4.7	-5.4	3.2
PATHOLOGY	32	38	40	56	71	76	62	15.5	-18.4	9.9
PHARMACOLOGY	210	197	210	194	245	241	243	2.3	.8	2.1
PHYSIOLOGY	374	386	388	351	358	344	345	-1.4	.3	-1.1
ZOOLOGY	1,484	1,397	1,370	1,255	1,224	1,196	1,157	-3.5	-3.3	-3.5
BIOSCIENCES, N.E.C.	48	52	51	63	84	68	109	6.0	60.3	12.4
HEALTH SCIENCES	1,678	1,727	1,721	1,927	1,994	2,098	2,053	3.8	-2.1	2.9
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	1	1	0	**	-100.0	**
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	71	90	125	144	186	197	159	18.5	-19.3	12.2
ENDOCRINOLOGY	7	5	8	5	10	6	6	-2.5	.0	-2.2
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	1	**	**	**
NEUROLOGY	32	40	31	21	35	35	45	1.5	28.6	5.0
NURSING	79	54	108	161	197	195	260	16.3	33.3	18.6
OBSTETRICS/GYNECOLOGY	0	2	3	0	1	0	0	**	**	**
OPHTHALMOLOGY	0	0	0	0	2	0	4	**	**	**
OTORHINOLARYNGOLOGY	0	0	0	3	0	0	0	**	**	**
PEDIATRICS	1	7	6	0	0	1	1	.0	.0	.0
PHARMACEUTICAL SCIENCES	550	584	562	596	575	575	581	.7	1.0	.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	33	34	69	57	82	72	72	13.9	.0	11.8
PSYCHIATRY	10	0	0	18	1	0	0	-100.0	**	-100.0
PULMONARY DISEASE	1	0	0	0	1	0	0	-100.0	**	-100.0
RADIOLOGY	10	9	20	13	15	15	5	7.0	-66.7	-9.4
SPEECH PATHOLOGY/AUDIOLOGY	716	723	595	697	681	755	658	.9	-12.8	-1.2
SURGERY	1	0	1	4	0	0	0	-100.0	**	-100.0
VETERINARY SCIENCES	86	99	87	113	125	128	127	6.9	-.8	5.7
CLINICAL MEDICINE, N.E.C.	22	17	23	17	11	16	39	-5.2	143.8	8.5
HEALTH RELATED, N.E.C.	59	63	83	78	71	102	95	9.6	-6.9	7.0
PSYCHOLOGY	3,924	4,086	4,107	4,206	4,202	4,407	4,587	2.0	4.1	2.3
SOCIAL SCIENCES	7,796	7,802	8,007	8,105	8,764	8,956	9,472	2.3	5.8	2.8
AGRICULTURAL ECONOMICS	73	67	94	89	93	110	118	7.1	7.3	7.1
ANTHROPOLOGY	956	894	885	817	838	805	843	-2.8	4.7	-1.8
ECONOMICS (EXCEPT AGRICULTURAL)	1,788	1,877	1,970	2,032	2,139	2,447	2,662	5.4	8.8	5.9
GEOGRAPHY	763	722	734	734	727	720	856	-1.0	18.9	1.7
HISTORY AND PHILOSOPHY OF SCIENCE	45	59	67	78	67	77	68	9.4	-11.7	6.1
LINGUISTICS	382	417	504	548	721	650	690	9.3	6.2	8.8
POLITICAL SCIENCE	1,536	1,573	1,601	1,649	1,949	1,795	1,969	2.6	9.7	3.6
SOCIOLOGY	1,590	1,489	1,482	1,513	1,435	1,519	1,545	-.8	1.7	-.4
SOCIOLOGY/ANTHROPOLOGY	178	198	205	194	227	212	192	3.0	-9.4	1.1
SOCIAL SCIENCES, N.E.C.	485	506	465	451	568	621	529	4.2	-14.8	1.2

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-34. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED TEACHING ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	634	548	563	586	549	603	549	-.8	-9.0	-2.0
ENGINEERING	46	38	59	53	65	125	102	18.1	-18.4	12.0
AEROSPACE	0	4	1	0	15	0	19	**	**	**
AGRICULTURAL	1	1	0	0	0	10	3	46.8	-70.0	17.0
BIOMEDICAL	1	1	0	1	0	1	0	.0	-100.0	-100.0
CHEMICAL	1	6	2	20	13	44	31	87.9	-29.5	63.3
CIVIL	10	12	18	2	13	31	11	20.8	-64.5	1.4
ELECTRICAL	4	9	16	9	1	4	6	.0	50.0	6.0
ENGINEERING SCIENCE	5	0	0	0	4	0	2	-100.0	**	-12.3
INDUSTRIAL	6	0	8	6	3	3	10	-10.9	233.3	7.6
MECHANICAL	6	3	2	3	4	9	8	7.0	-11.1	4.2
METALLURGICAL/MATERIALS	0	0	1	9	7	0	0	**	**	**
MINING	0	0	0	0	0	1	6	**	500.0	**
NUCLEAR	6	1	11	1	0	3	0	-10.9	-100.0	-100.0
PETROLEUM	0	0	0	1	3	0	0	**	**	**
ENGINEERING, N.E.C.	6	1	0	1	2	19	6	21.2	-68.4	.0
PHYSICAL SCIENCES	20	35	29	40	64	59	48	19.8	-18.6	13.3
ASTRONOMY	0	1	1	1	1	0	8	**	**	**
CHEMISTRY	13	28	21	28	52	47	19	23.9	-59.6	5.6
PHYSICS	7	6	7	11	11	12	21	9.4	75.0	17.0
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	11	6	3	16	29	27	14	16.1	-48.1	3.5
ATMOSPHERIC SCIENCES	0	0	1	1	1	6	0	**	-100.0	**
GEOSCIENCES	10	2	0	10	25	18	14	10.3	-22.2	4.9
OCEANOGRAPHY	1	2	0	2	3	3	0	20.1	-100.0	-100.0
ENVIRONMENTAL SCIENCES, N.E.C.	0	2	2	3	0	0	0	**	**	**
MATHEMATICAL/COMPUTER SCIENCES	50	18	20	8	11	24	40	-11.5	66.7	-3.1
COMPUTER SCIENCE	18	4	6	4	1	3	0	-25.8	-100.0	-100.0
MATHEMATICS AND APPLIED MATHEMATICS	32	13	10	4	8	21	40	-6.8	90.5	3.2
STATISTICS	0	1	4	0	2	0	0	**	**	**
LIFE SCIENCES	359	310	365	382	301	262	237	-5.1	-9.5	-5.8
AGRICULTURAL SCIENCES	28	16	17	9	8	24	9	-2.5	-62.5	-15.0
BIOLOGICAL SCIENCES	152	106	170	177	151	114	127	-4.7	11.4	-2.5
ANATOMY	10	15	16	4	5	3	9	-18.2	200.0	-1.5
BIOCHEMISTRY	51	25	33	37	33	31	25	-8.0	-19.4	-9.7
BIOLOGY	15	6	30	48	51	10	20	-6.5	100.0	4.2
BIOMETRY/EPIDEMIOLOGY	7	7	13	11	0	1	0	-27.7	-100.0	-100.0
BIOPHYSICS	1	0	3	2	0	5	0	30.8	-100.0	-100.0
BOTANY	5	8	0	6	15	12	11	15.7	-8.3	11.9
CELL BIOLOGY	1	0	1	0	0	4	3	26.0	-25.0	17.0
ECOLOGY	1	0	1	1	0	0	7	-100.0	**	32.0
ENTOMOLOGY/PARASITOLOGY	6	0	0	10	2	1	3	-25.8	200.0	-9.4
GENETICS	0	3	14	2	2	3	0	**	-100.0	**
MICROBIOLOGY	18	11	13	30	6	23	14	4.2	-39.1	-3.5
NUTRITION	4	8	6	4	3	3	2	-4.7	-33.3	-9.4
PATHOLOGY	0	0	0	4	3	1	0	**	-100.0	**
PHARMACOLOGY	6	9	18	7	22	12	16	12.2	33.3	15.0
PHYSIOLOGY	18	8	21	7	4	1	6	-38.2	500.0	-14.5
ZOOLOGY	9	4	1	4	2	2	11	-22.2	450.0	2.9
BIOSCIENCES, N.E.C.	0	2	0	0	3	2	0	**	-100.0	**
HEALTH SCIENCES	179	188	178	196	142	124	101	-5.9	-18.5	-7.8
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	10	13	3	19	20	7	**	-65.0	**
ENDOCRINOLOGY	0	0	0	1	0	0	0	**	**	**
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	1	6	1	0	1	0	**	-100.0	**
NURSING	15	7	9	24	35	16	34	1.1	112.5	12.4
OBSTETRICS/GYNECOLOGY	0	0	3	0	0	0	0	**	**	**
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	1	3	1	0	0	1	1	.0	.0	.0
PHARMACEUTICAL SCIENCES	33	49	32	42	8	11	13	-16.7	18.2	-12.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	11	12	19	9	12	4	3	-15.5	-25.0	-16.9
PSYCHIATRY	10	0	0	0	0	0	0	-100.0	**	-100.0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	2	0	0	0	0	0	0	-100.0	**	-100.0
SPEECH PATHOLOGY/AUDIOLOGY	78	74	60	87	42	46	30	-8.4	-34.8	-12.8
SURGERY	0	0	1	1	0	0	0	**	**	**
VETERINARY SCIENCES	17	15	9	14	13	8	5	-11.8	-37.5	-16.0
CLINICAL MEDICINE, N.E.C.	1	0	0	0	0	8	5	41.4	-37.5	25.8
HEALTH RELATED, N.E.C.	11	17	25	14	13	9	3	-3.3	-66.7	-16.9
PSYCHOLOGY	21	60	21	26	31	30	39	6.1	30.0	9.2
SOCIAL SCIENCES	127	81	66	61	48	76	69	-8.2	-9.2	-8.3
AGRICULTURAL ECONOMICS	1	7	3	6	1	1	0	.0	-100.0	-100.0
ANTHROPOLOGY	13	11	8	16	7	5	1	-14.7	-80.0	-30.7
ECONOMICS (EXCEPT AGRICULTURAL)	15	20	11	10	1	18	15	3.1	-16.7	.0
GEOGRAPHY	2	5	1	2	11	4	0	12.2	-100.0	-100.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	1	0	0	4	0	**	-100.0	**
LINGUISTICS	1	0	0	0	3	3	6	20.1	100.0	29.2
POLITICAL SCIENCE	10	6	13	7	13	20	10	12.2	-50.0	.0
SOCIOLOGY	30	11	11	2	8	5	17	-25.8	240.0	-7.8
SOCIOLOGY/ANTHROPOLOGY	0	0	2	0	3	6	0	**	-100.0	**
SOCIAL SCIENCES, N.E.C.	55	21	16	18	1	10	20	-24.7	100.0	-13.5

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-35. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED TEACHING ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	45,558	46,800	47,749	48,079	49,039	51,259	53,209	2.0	3.8	2.2
ENGINEERING	5,150	5,367	5,558	5,741	6,484	7,156	8,186	5.6	14.4	6.8
AEROSPACE	182	171	163	155	163	189	199	.0	5.3	1.3
AGRICULTURAL	34	32	44	37	57	45	39	4.8	-13.3	2.0
BIOMEDICAL	49	69	62	65	91	102	94	13.0	-7.8	9.8
CHEMICAL	589	629	638	684	764	805	925	5.3	14.9	6.7
CIVIL	735	776	855	937	976	1,044	1,149	6.0	10.1	6.6
ELECTRICAL	1,581	1,607	1,607	1,556	1,861	2,077	2,440	4.7	17.5	6.4
ENGINEERING SCIENCE	131	153	168	180	141	191	190	6.5	-.5	5.5
INDUSTRIAL	378	408	476	446	499	521	614	5.5	17.9	7.2
MECHANICAL	838	854	877	997	1,158	1,253	1,439	6.9	14.8	8.0
METALLURGICAL/MATERIALS	183	202	200	195	187	231	242	4.0	4.8	4.1
MINING	34	36	34	42	40	31	53	-1.5	71.0	6.5
NUCLEAR	117	116	114	107	129	96	111	-3.2	15.6	-.7
PETROLEUM	19	14	10	25	33	46	53	15.9	15.2	15.8
ENGINEERING, N.E.C.	280	300	310	315	385	525	638	11.0	21.5	12.5
PHYSICAL SCIENCES	10,038	10,150	10,172	10,089	9,508	9,834	9,870	-.3	.4	-.2
ASTRONOMY	164	173	153	154	169	174	173	1.0	-.6	.8
CHEMISTRY	6,193	6,323	6,437	6,424	6,090	6,256	6,161	.2	-1.5	-.1
PHYSICS	3,658	3,633	3,559	3,493	3,233	3,386	3,518	-1.3	3.9	-.6
PHYSICAL SCIENCES, N.E.C.	23	21	23	18	16	18	18	-4.0	.0	-3.4
ENVIRONMENTAL SCIENCES	2,009	2,160	2,222	2,195	2,428	2,508	2,481	3.8	-1.1	3.1
ATMOSPHERIC SCIENCES	75	75	84	75	97	88	83	2.7	-5.7	1.5
GEOSCIENCES	1,651	1,746	1,802	1,755	1,947	2,014	2,003	3.4	-.5	2.8
OCEANOGRAPHY	111	106	133	140	129	143	129	4.3	-9.8	2.2
ENVIRONMENTAL SCIENCES, N.E.C.	172	233	203	225	255	263	266	7.3	1.1	6.4
MATHEMATICAL/COMPUTER SCIENCES	6,340	6,473	6,555	6,337	6,434	6,762	7,238	1.1	7.0	1.9
COMPUTER SCIENCE	788	898	999	986	1,262	1,425	1,771	10.4	24.3	12.3
MATHEMATICS AND APPLIED MATHEMATICS	5,132	5,081	5,013	4,826	4,597	4,712	4,831	-1.4	2.5	-.9
STATISTICS	420	494	543	525	575	625	636	6.8	1.8	6.1
LIFE SCIENCES	10,449	10,903	11,215	11,493	11,298	11,742	11,483	2.0	-2.2	1.4
AGRICULTURAL SCIENCES	565	675	766	827	817	868	784	7.4	-.7	4.8
BIOLOGICAL SCIENCES	8,385	8,689	8,906	8,935	8,629	8,900	8,747	1.0	-1.7	.6
ANATOMY	227	246	291	306	326	283	300	3.7	6.0	4.1
BIOCHEMISTRY	511	540	557	588	544	645	661	4.0	2.5	3.7
BIOLOGY	3,000	3,201	3,299	3,342	3,167	3,351	3,184	1.9	-5.0	.9
BIOMETRY/EPIDEMIOLOGY	13	25	27	29	46	44	52	22.5	18.2	21.9
BIOPHYSICS	46	53	34	35	28	41	38	-1.9	-7.3	-2.7
BOTANY	916	895	919	894	896	894	825	-.4	-7.7	-1.5
CELL BIOLOGY	120	159	128	114	88	89	109	-4.9	22.5	-1.4
ECOLOGY	172	225	270	296	290	297	312	9.5	5.1	8.9
ENTOMOLOGY/PARASITOLOGY	120	140	156	139	157	162	165	5.1	1.9	4.7
GENETICS	103	94	111	143	104	108	119	.8	10.2	2.1
MICROBIOLOGY	833	847	877	892	758	802	836	-.6	4.2	.1
NUTRITION	209	217	218	260	277	277	263	4.8	-5.1	3.3
PATHOLOGY	32	38	40	52	68	75	62	15.3	-17.3	9.9
PHARMACOLOGY	204	188	192	187	223	229	227	1.9	-.9	1.5
PHYSIOLOGY	356	378	367	344	354	343	339	-.6	-1.2	-.7
ZOOLOGY	1,475	1,393	1,369	1,251	1,222	1,194	1,146	-3.5	-4.0	-3.5
BIOSCIENCES, N.E.C.	48	50	51	63	81	66	109	5.5	65.2	12.4
HEALTH SCIENCES	1,499	1,539	1,543	1,731	1,852	1,974	1,952	4.7	-1.1	3.8
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	1	1	0	**	-100.0	**
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	71	80	112	141	167	177	152	16.4	-14.1	11.5
ENDOCRINOLOGY	7	5	8	4	10	6	6	-2.5	.0	-2.2
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	1	**	**	**
NEUROLOGY	32	39	25	20	35	34	45	1.0	32.4	5.0
NURSING	64	47	99	137	162	179	226	18.7	26.3	19.8
OBSTETRICS/GYNECOLOGY	0	2	0	0	1	0	0	**	**	**
OPHTHALMOLOGY	0	0	0	0	2	0	4	**	**	**
OTORHINOLARYNGOLOGY	0	0	0	3	0	0	0	**	**	**
PEDIATRICS	0	4	5	0	0	0	0	**	**	**
PHARMACEUTICAL SCIENCES	517	535	530	554	567	564	568	1.5	.7	1.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	22	22	50	48	70	68	69	20.7	1.5	17.7
PSYCHIATRY	0	0	0	18	1	0	0	**	**	**
PULMONARY DISEASE	1	0	0	0	1	0	0	-100.0	**	-100.0
RADIOLOGY	8	9	20	13	15	15	5	11.0	-66.7	-6.5
SPEECH PATHOLOGY/AUDIOLOGY	638	649	535	610	639	709	628	1.8	-11.4	-.2
SURGERY	1	0	0	3	0	0	0	-100.0	**	-100.0
VETERINARY SCIENCES	69	84	78	99	112	120	122	9.7	1.7	8.5
CLINICAL MEDICINE, N.E.C.	21	17	23	17	11	8	34	-14.9	325.0	7.1
HEALTH RELATED, N.E.C.	48	46	58	64	58	93	92	11.7	-1.1	9.7
PSYCHOLOGY	3,903	4,026	4,086	4,180	4,171	4,377	4,548	1.9	3.9	2.2
SOCIAL SCIENCES	7,669	7,721	7,941	8,044	8,716	8,880	9,403	2.5	5.9	3.0
AGRICULTURAL ECONOMICS	72	60	91	83	92	109	118	7.2	8.3	7.3
ANTHROPOLOGY	943	883	877	801	831	800	842	-2.7	5.2	-1.6
ECONOMICS (EXCEPT AGRICULTURAL)	1,773	1,857	1,959	2,022	2,138	2,429	2,647	5.4	9.0	5.9
GEOGRAPHY	761	717	733	732	716	716	856	-1.0	19.6	1.7
HISTORY AND PHILOSOPHY OF SCIENCE	45	59	66	78	67	73	68	8.4	-6.8	6.1
LINGUISTICS	381	417	504	548	718	647	684	9.2	5.7	8.7
POLITICAL SCIENCE	1,526	1,567	1,588	1,642	1,936	1,775	1,959	2.6	10.4	3.6
SOCIOLOGY	1,560	1,478	1,471	1,511	1,427	1,514	1,528	-.5	.9	-.3
SOCIOLOGY/ANTHROPOLOGY	178	198	203	194	224	206	192	2.5	-6.8	1.1
SOCIAL SCIENCES, N.E.C.	430	485	449	433	567	611	509	6.0	-16.7	2.4

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT HAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-36. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH OTHER TYPES OF SUPPORT IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	71,164	84,025	85,575	85,689	86,345	89,100	91,127	3.8	2.3	3.6
ENGINEERING	12,564	16,028	14,845	14,667	15,953	16,475	17,582	4.6	6.7	4.9
AEROSPACE	415	417	398	434	380	450	508	1.4	12.9	2.9
AGRICULTURAL	98	121	173	188	174	132	185	5.1	40.2	9.5
BIOMEDICAL	255	327	307	317	332	315	363	3.6	15.2	5.2
CHEMICAL	753	909	925	1,007	1,130	1,101	1,224	6.5	11.2	7.2
CIVIL	2,281	3,134	2,604	2,659	2,961	2,961	3,032	4.4	2.4	4.1
ELECTRICAL	3,074	3,618	3,520	3,557	3,649	3,937	3,870	4.2	-1.7	3.3
ENGINEERING SCIENCE	279	335	348	358	336	338	282	3.2	-16.6	.2
INDUSTRIAL	1,793	2,714	2,364	2,021	2,443	2,353	2,266	4.6	-3.7	3.4
MECHANICAL	1,617	1,898	1,754	1,550	1,740	1,928	2,177	3.0	12.9	4.3
METALLURGICAL/MATERIALS	231	282	255	316	330	291	335	3.9	15.1	5.5
MINING	116	163	151	124	115	119	131	.4	10.1	1.8
NUCLEAR	353	366	347	337	302	291	311	-3.2	6.9	-1.8
PETROLEUM	109	72	106	71	105	131	146	3.1	11.5	4.3
ENGINEERING, N.E.C.	1,190	1,672	1,593	1,728	1,956	2,128	2,752	10.2	29.3	12.7
PHYSICAL SCIENCES	2,326	2,466	2,365	2,416	2,248	1,970	1,931	-2.7	-2.0	-2.6
ASTRONOMY	96	104	82	74	63	46	49	-11.5	6.5	-9.2
CHEMISTRY	974	1,115	1,050	1,102	1,199	959	854	-.3	-10.9	-1.9
PHYSICS	1,228	1,206	1,209	1,201	970	930	1,007	-4.5	8.3	-2.8
PHYSICAL SCIENCES, N.E.C.	28	41	24	39	16	35	21	3.8	-40.0	-4.0
ENVIRONMENTAL SCIENCES	2,758	2,992	3,046	3,118	2,914	2,790	3,352	.2	20.1	2.8
ATMOSPHERIC SCIENCES	252	264	222	222	154	155	201	-7.8	29.7	-3.2
GEOSCIENCES	1,725	1,904	1,853	1,884	1,885	1,845	2,196	1.1	19.0	3.5
OCEANOGRAPHY	423	360	398	425	392	423	499	.0	18.0	2.4
ENVIRONMENTAL SCIENCES, N.E.C.	358	464	573	587	483	367	456	.4	24.3	3.5
MATHEMATICAL/COMPUTER SCIENCES	4,627	4,938	5,142	4,855	4,759	5,424	5,808	2.7	7.1	3.3
COMPUTER SCIENCE	1,932	2,111	2,264	2,215	2,613	3,129	3,273	8.4	4.6	7.8
MATHEMATICS AND APPLIED MATHEMATICS	2,366	2,342	2,412	2,146	1,767	1,868	2,021	-3.9	8.2	-2.2
STATISTICS	329	485	466	494	379	427	514	4.4	20.4	6.6
LIFE SCIENCES	18,277	21,006	22,452	22,896	22,916	23,344	23,323	4.2	-.1	3.5
AGRICULTURAL SCIENCES	2,759	3,213	3,554	3,583	3,423	3,465	3,367	3.9	-2.8	2.9
BIOLOGICAL SCIENCES	8,839	10,373	10,547	10,623	9,293	8,756	8,468	-.2	-3.3	-.6
ANATOMY	270	307	346	328	243	268	222	-.1	-17.2	-2.8
BIOCHEMISTRY	513	534	455	513	449	474	431	-1.3	-9.1	-2.5
BIOLOGY	2,443	3,239	3,215	2,981	2,441	2,073	2,007	-2.7	-3.2	-2.8
BIOMETRY/EPIDEMIOLOGY	198	338	348	453	491	523	432	17.6	-17.4	11.8
BIOPHYSICS	110	115	124	115	94	94	127	-2.6	35.1	2.1
BOTANY	845	822	963	1,029	773	735	657	-2.3	-10.6	-3.5
CELL BIOLOGY	48	71	62	38	74	68	59	6.0	-13.2	3.0
ECOLOGY	191	262	224	307	200	249	251	4.5	.8	4.0
ENTOMOLOGY/PARASITOLOGY	319	454	474	470	347	310	319	-.5	2.9	.0
GENETICS	175	180	187	176	179	126	146	-5.3	15.9	-2.6
MICROBIOLOGY	882	909	908	924	761	761	659	-2.4	-13.4	-4.1
NUTRITION	788	905	1,010	1,093	1,215	1,101	1,341	5.7	21.8	7.9
PATHOLOGY	346	389	442	503	498	456	383	4.7	-16.0	1.5
PHARMACOLOGY	245	316	358	398	355	422	337	9.5	-20.1	4.7
PHYSIOLOGY	591	652	606	544	546	500	563	-2.7	12.6	-.7
ZOOLOGY	815	839	764	673	503	478	455	-8.5	-4.8	-8.0
BIOSCIENCES, N.E.C.	60	41	61	78	124	118	79	11.9	-33.1	4.0
HEALTH SCIENCES	6,679	7,420	8,351	8,690	10,200	11,123	11,488	8.9	3.3	8.1
ANESTHESIOLOGY	46	0	0	2	15	13	15	-19.0	15.4	-14.8
CANCER/ONCOLOGY	15	0	1	2	0	0	44	-100.0	**	16.6
CARDIOLOGY	6	1	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	586	698	611	660	730	689	644	2.7	-6.5	1.4
ENDOCRINOLOGY	7	17	10	16	6	12	8	9.4	-33.3	1.9
GASTROENTEROLOGY	2	0	0	0	0	0	0	-100.0	**	-100.0
HEMATOLOGY	0	3	2	2	9	6	5	**	-16.7	**
NEUROLOGY	45	29	31	38	22	46	24	.4	-47.8	-8.6
NURSING	832	765	1,020	1,318	2,244	2,284	2,973	18.3	30.2	20.0
OBSTETRICS/GYNECOLOGY	8	11	10	4	4	3	4	-15.1	33.3	-9.4
OPHTHALMOLOGY	2	2	1	2	1	2	2	.0	.0	.0
OTORHINOLARYNGOLOGY	9	10	11	22	6	7	0	-4.1	-100.0	-100.0
PEDIATRICS	93	71	82	59	35	44	35	-11.7	-20.5	-13.0
PHARMACEUTICAL SCIENCES	319	440	405	498	404	439	382	5.5	-13.0	2.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,308	1,295	1,665	1,603	2,208	2,270	2,277	9.6	.3	8.2
PSYCHIATRY	23	56	63	49	50	16	18	-5.9	12.5	-3.4
PULMONARY DISEASE	1	0	0	0	0	2	0	12.2	-100.0	-100.0
RADIOLOGY	83	91	59	101	87	95	96	2.3	1.1	2.1
SPEECH PATHOLOGY/AUDIOLOGY	2,151	2,835	3,098	2,830	2,618	2,964	2,821	5.5	-4.8	3.9
SURGERY	27	24	21	23	16	28	4	.6	-85.7	-23.9
VETERINARY SCIENCES	170	156	186	184	239	213	178	3.8	-16.4	.7
CLINICAL MEDICINE, N.E.C.	148	78	83	98	66	106	51	-5.4	-51.9	-14.1
HEALTH RELATED, N.E.C.	798	838	992	1,179	1,440	1,884	1,907	15.4	1.2	13.3
PSYCHOLOGY	8,108	8,926	10,759	10,542	10,561	11,386	11,056	5.8	-2.9	4.5
SOCIAL SCIENCES	22,504	27,669	26,966	27,195	26,994	27,711	28,075	3.5	1.3	3.2
AGRICULTURAL ECONOMICS	461	673	776	610	709	744	762	8.3	2.4	7.4
ANTHROPOLOGY	2,356	2,685	2,769	2,873	2,414	2,507	2,359	1.0	-5.9	*
ECONOMICS (EXCEPT AGRICULTURAL)	2,713	3,341	3,090	3,302	3,355	3,885	4,102	6.2	5.6	6.1
GEOGRAPHY	778	962	1,026	891	781	853	826	1.5	-3.2	.9
HISTORY AND PHILOSOPHY OF SCIENCE	109	107	103	99	88	83	76	-4.4	-8.4	-5.0
LINGUISTICS	738	1,084	1,009	763	771	979	932	4.8	-4.8	3.4
POLITICAL SCIENCE	6,068	7,902	7,245	7,475	7,464	6,926	7,518	2.2	8.5	3.1
SOCIOLOGY	2,469	2,665	2,712	2,513	2,022	2,221	2,024	-1.7	-8.9	-2.8
SOCIOLOGY/ANTHROPOLOGY	412	503	210	341	194	229	164	-9.3	-28.4	-12.3
SOCIAL SCIENCES, N.E.C.	6,400	7,747	8,026	8,328	9,196	9,284	9,312	6.4	.3	5.5

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-37. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED OTHER TYPES OF SUPPORT IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	4,911	4,353	4,712	4,927	5,171	4,829	4,680	-.3	-3.1	-.7
ENGINEERING	1,654	1,560	1,652	1,484	1,610	1,514	1,422	-1.5	-6.1	-2.1
AEROSPACE	236	187	163	205	136	170	198	-5.3	16.5	-2.5
AGRICULTURAL	16	7	4	13	11	4	5	-20.6	25.0	-15.3
BIOMEDICAL	14	27	13	8	17	24	21	13.9	-12.5	9.7
CHEMICAL	29	35	30	35	126	39	39	5.1	.0	4.3
CIVIL	178	152	176	135	165	133	130	-4.7	-2.3	-4.4
ELECTRICAL	427	371	407	419	407	496	442	2.5	-10.9	.5
ENGINEERING SCIENCE	123	148	157	184	189	179	110	6.5	-38.5	-1.6
INDUSTRIAL	303	239	370	216	311	202	213	-6.5	5.4	-4.9
MECHANICAL	198	207	160	101	121	138	138	-5.8	.0	-5.0
METALLURGICAL/MATERIALS	6	13	6	9	9	12	2	12.2	-83.3	-14.5
MINING	15	13	7	4	11	26	26	9.6	.0	8.2
NUCLEAR	24	16	15	20	6	7	6	-18.6	-14.3	-18.0
PETROLEUM	4	2	4	2	15	4	1	.0	-75.0	-18.0
ENGINEERING, N.E.C.	84	143	140	133	86	80	91	-.8	13.7	1.2
PHYSICAL SCIENCES	177	195	195	305	327	174	159	-.3	-8.6	-1.5
ASTRONOMY	7	10	9	13	4	4	4	-8.9	.0	-7.7
CHEMISTRY	23	25	35	104	235	44	16	11.4	-63.6	-5.1
PHYSICS	140	148	150	183	88	117	135	-2.9	15.4	-.5
PHYSICAL SCIENCES, N.E.C.	7	12	1	5	0	9	4	4.3	-55.6	-7.7
ENVIRONMENTAL SCIENCES	348	274	238	260	290	208	220	-8.2	5.8	-6.3
ATMOSPHERIC SCIENCES	140	118	98	91	56	44	60	-17.5	36.4	-11.4
GEOSCIENCES	102	78	74	98	122	61	55	-8.2	-9.8	-8.4
OCEANOGRAPHY	79	66	50	44	102	89	91	2.0	2.2	2.0
ENVIRONMENTAL SCIENCES, N.E.C.	27	12	16	27	10	14	14	-10.4	.0	-9.0
MATHEMATICAL/COMPUTER SCIENCES	428	396	358	293	383	361	474	-2.8	31.3	1.5
COMPUTER SCIENCE	181	212	199	105	117	110	174	-8.0	58.2	-.6
MATHEMATICS AND APPLIED MATHEMATICS	235	176	154	174	246	240	289	.4	20.4	3.0
STATISTICS	12	8	5	14	20	11	11	-1.4	.0	-1.2
LIFE SCIENCES	845	677	892	878	1,159	1,187	1,208	5.8	1.8	5.2
AGRICULTURAL SCIENCES	83	61	109	91	128	56	91	-6.3	62.5	1.3
BIOLOGICAL SCIENCES	372	390	454	409	499	415	385	1.8	-7.2	.5
ANATOMY	19	14	10	6	22	28	15	6.7	-46.4	-3.3
BIOCHEMISTRY	36	52	38	55	37	38	44	.9	15.8	2.9
BIOLOGY	44	44	75	47	85	26	35	-8.4	34.6	-3.2
BIOMETRY/EPIDEMIOLOGY	6	11	13	23	18	13	24	13.8	84.6	21.9
BIOPHYSICS	11	4	4	13	6	5	4	-12.3	-20.0	-13.5
BOTANY	32	26	62	44	31	20	16	-7.5	-20.0	-9.4
CELL BIOLOGY	4	0	6	8	33	23	5	33.8	-78.3	3.2
ECOLOGY	14	15	19	8	15	11	7	-3.9	-36.4	-9.4
ENTOMOLOGY/PARASITOLOGY	34	26	19	18	20	15	19	-12.7	26.7	-8.0
GENETICS	9	21	5	0	17	5	15	-9.3	200.0	7.6
MICROBIOLOGY	39	52	63	40	43	64	60	8.6	-6.3	6.3
NUTRITION	21	20	27	32	8	21	20	.0	-4.8	-.7
PATHOLOGY	27	27	32	23	24	32	23	2.9	-28.1	-2.3
PHARMACOLOGY	21	30	35	25	33	39	28	10.9	-28.2	4.2
PHYSIOLOGY	39	24	29	39	71	49	36	3.9	-26.5	-1.1
ZOOLOGY	15	21	14	25	30	19	30	4.0	57.9	10.4
BIOSCIENCES, N.E.C.	1	3	3	3	6	7	4	38.3	-42.9	21.9
HEALTH SCIENCES	390	226	329	378	532	716	732	10.7	2.2	9.4
ANESTHESIOLOGY	12	0	0	0	0	0	0	-100.0	**	-100.0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	**	**	**
CARDIOLOGY	3	1	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	23	21	24	70	43	56	46	16.0	-17.9	10.4
ENDOCRINOLOGY	1	1	0	0	0	2	1	12.2	-50.0	.0
GASTROENTEROLOGY	0	0	0	0	0	0	0	**	**	**
HEMATOLOGY	0	0	0	0	0	0	1	**	**	**
NEUROLOGY	4	1	0	1	1	13	4	21.7	-69.2	.0
NURSING	44	50	83	47	155	239	315	32.6	31.8	32.5
OBSTETRICS/GYNECOLOGY	3	1	0	0	0	0	0	-100.0	**	-100.0
OPHTHALMOLOGY	1	0	0	0	0	0	0	-100.0	**	-100.0
OTORHINOLARYNGOLOGY	0	0	0	2	0	2	0	**	-100.0	**
PEDIATRICS	6	6	19	2	0	0	0	-100.0	**	-100.0
PHARMACEUTICAL SCIENCES	10	10	17	23	21	21	29	13.2	38.1	16.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	105	35	99	103	183	127	126	3.2	-.8	2.6
PSYCHIATRY	1	0	1	0	6	0	0	-100.0	**	-100.0
PULMONARY DISEASE	0	0	0	0	0	0	0	**	**	**
RADIOLOGY	6	6	1	10	1	2	2	-16.7	.0	-14.5
SPEECH PATHOLOGY/AUDIOLOGY	109	48	55	34	32	53	37	-11.3	-30.2	-14.3
SURGERY	1	2	0	0	0	2	0	12.2	-100.0	-100.0
VETERINARY SCIENCES	20	9	11	2	12	22	7	1.6	-68.2	-13.9
CLINICAL MEDICINE, N.E.C.	13	12	6	16	4	18	0	5.6	-100.0	-100.0
HEALTH RELATED, N.E.C.	28	23	13	68	74	159	164	33.6	3.1	28.7
PSYCHOLOGY	289	333	289	288	293	461	366	8.1	-20.6	3.4
SOCIAL SCIENCES	1,170	918	1,088	1,419	1,109	924	831	-3.9	-10.1	-4.8
AGRICULTURAL ECONOMICS	44	51	58	49	66	37	63	-2.8	70.3	5.3
ANTHROPOLOGY	51	46	57	76	51	60	61	2.7	1.7	2.6
ECONOMICS (EXCEPT AGRICULTURAL)	82	52	66	79	55	90	75	1.6	-16.7	-1.3
GEOGRAPHY	21	30	56	51	20	12	15	-8.9	25.0	-4.7
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	1	1	0	0	3	**	**	**
LINGUISTICS	13	9	11	21	26	8	10	-7.8	25.0	-3.7
POLITICAL SCIENCE	393	200	333	670	345	379	380	-.6	.3	-.5
SOCIOLOGY	97	90	104	125	73	56	78	-8.7	39.3	-3.1
SOCIOLOGY/ANTHROPOLOGY	1	1	7	13	1	12	1	51.3	-91.7	.0
SOCIAL SCIENCES, N.E.C.	468	439	395	334	472	270	145	-8.8	-46.3	-15.4

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-38. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED OTHER TYPES OF SUPPORT IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	66,253	79,672	80,863	80,762	81,174	84,271	86,447	4.1	2.6	3.9
ENGINEERING	10,910	14,468	13,193	13,183	14,343	14,961	16,160	5.4	8.0	5.8
AEROSPACE	179	230	235	229	244	280	310	7.7	10.7	8.2
AGRICULTURAL	82	114	169	175	163	128	180	7.7	40.6	11.9
BIOMEDICAL	244	300	294	309	315	291	342	3.0	17.5	4.9
CHEMICAL	724	874	895	972	1,004	1,062	1,185	6.6	11.6	7.3
CIVIL	2,103	2,982	2,428	2,524	2,796	2,828	2,902	5.1	2.6	4.7
ELECTRICAL	2,647	3,247	3,113	3,138	3,242	3,441	3,428	4.5	-.4	3.8
ENGINEERING SCIENCE	156	187	191	174	147	159	172	.3	8.2	1.4
INDUSTRIAL	1,490	2,475	1,994	1,805	2,132	2,151	2,053	6.3	-4.6	4.7
MECHANICAL	1,419	1,691	1,594	1,449	1,619	1,790	2,039	3.9	13.9	5.3
METALLURGICAL/MATERIALS	225	269	249	307	321	279	333	3.7	19.4	5.8
MINING	101	150	144	120	104	93	105	-1.4	12.9	.6
NUCLEAR	329	350	332	317	296	284	305	-2.4	7.4	-1.1
PETROLEUM	105	70	102	69	90	127	145	3.2	14.2	4.7
ENGINEERING, N.E.C.	1,106	1,529	1,453	1,595	1,870	2,048	2,661	10.8	29.9	13.4
PHYSICAL SCIENCES	2,149	2,271	2,170	2,111	1,921	1,796	1,772	-2.9	-1.3	-2.7
ASTRONOMY	89	94	73	61	59	42	45	-11.8	7.1	-9.3
CHEMISTRY	951	1,090	1,015	998	964	915	838	-.6	-8.4	-1.8
PHYSICS	1,088	1,058	1,059	1,018	882	813	872	-4.7	7.3	-3.1
PHYSICAL SCIENCES, N.E.C.	21	29	23	34	16	26	17	3.6	-34.6	-3.0
ENVIRONMENTAL SCIENCES	2,410	2,718	2,808	2,858	2,624	2,582	3,132	1.2	21.3	3.8
ATMOSPHERIC SCIENCES	112	146	124	131	98	111	141	-.1	27.0	3.3
GEOSCIENCES	1,623	1,826	1,779	1,786	1,763	1,784	2,141	1.6	20.0	4.0
OCEANOGRAPHY	344	294	348	381	290	334	408	-.5	22.2	2.5
ENVIRONMENTAL SCIENCES, N.E.C.	331	452	557	560	473	353	442	1.1	25.2	4.2
MATHEMATICAL/COMPUTER SCIENCES	4,199	4,542	4,784	4,562	4,376	5,063	5,334	3.2	5.4	3.5
COMPUTER SCIENCE	1,751	1,899	2,065	2,110	2,496	3,019	3,099	9.5	2.6	8.5
MATHEMATICS AND APPLIED MATHEMATICS	2,131	2,166	2,258	1,972	1,521	1,628	1,732	-4.4	6.4	-2.9
STATISTICS	317	477	461	480	359	416	503	4.6	20.9	6.8
LIFE SCIENCES	17,432	20,329	21,560	22,018	21,757	22,157	22,115	4.1	-.2	3.5
AGRICULTURAL SCIENCES	2,676	3,152	3,445	3,492	3,295	3,409	3,276	4.1	-3.9	2.9
BIOLOGICAL SCIENCES	8,467	9,983	10,093	10,214	8,794	8,341	8,083	-.2	-3.1	-.7
ANATOMY	251	293	336	322	221	240	207	-.7	-13.8	-2.7
BIOCHEMISTRY	477	482	417	458	412	436	387	-1.5	-11.2	-2.9
BIOLOGY	2,399	3,195	3,140	2,934	2,356	2,047	1,972	-2.6	-3.7	-2.8
BIOMETRY/EPIDEMIOLOGY	192	327	335	430	473	510	408	17.7	-20.0	11.4
BIOPHYSICS	99	111	120	102	88	89	123	-1.8	38.2	3.1
BOTANY	813	796	901	985	742	715	641	-2.1	-10.3	-3.3
CELL BIOLOGY	44	71	56	30	41	45	54	.4	20.0	3.0
ECOLOGY	177	247	205	299	185	238	244	5.1	2.5	4.7
ENTOMOLOGY/PARASITOLOGY	285	428	455	452	327	295	300	.6	1.7	.7
GENETICS	166	159	182	176	162	121	131	-5.1	8.3	-3.3
MICROBIOLOGY	843	857	845	884	718	697	599	-3.1	-14.1	-4.8
NUTRITION	767	885	983	1,061	1,207	1,080	1,321	5.9	22.3	8.1
PATHOLOGY	319	362	410	480	474	424	360	4.9	-15.1	1.7
PHARMACOLOGY	224	286	323	373	322	383	309	9.4	-19.3	4.7
PHYSIOLOGY	552	628	577	505	475	451	527	-3.3	16.9	-.7
ZOOLOGY	800	818	750	648	473	459	425	-8.8	-7.4	-8.6
BIOSCIENCES, N.E.C.	59	38	58	75	118	111	75	11.1	-32.4	3.5
HEALTH SCIENCES	6,289	7,194	8,022	8,312	9,668	10,407	10,756	8.8	3.4	8.0
ANESTHESIOLOGY	34	0	0	2	15	13	15	-14.8	15.4	-11.0
CANCER/ONCOLOGY	15	0	1	2	0	0	44	-100.0	**	16.6
CARDIOLOGY	3	0	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	563	677	587	590	687	633	598	2.0	-5.5	.9
ENDOCRINOLOGY	6	16	10	16	6	10	7	8.9	-30.0	2.2
GASTROENTEROLOGY	2	0	0	0	0	0	0	-100.0	**	-100.0
HEMATOLOGY	0	3	2	2	9	6	4	**	-33.3	**
NEUROLOGY	41	28	31	37	21	33	20	-3.6	-39.4	-9.7
NURSING	788	715	937	1,271	2,089	2,045	2,658	17.2	30.0	19.0
OBSTETRICS/GYNECOLOGY	5	10	10	4	4	3	4	-8.2	33.3	-3.1
OPHTHALMOLOGY	1	2	1	2	1	2	2	12.2	.0	10.4
OTORHINOLARYNGOLOGY	9	10	11	20	6	5	0	-9.3	-100.0	-100.0
PEDIATRICS	87	65	63	57	35	44	35	-10.7	-20.5	-12.2
PHARMACEUTICAL SCIENCES	309	430	388	475	383	418	353	5.2	-15.6	1.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,203	1,260	1,566	1,500	2,025	2,143	2,151	10.1	.4	8.7
PSYCHIATRY	22	56	62	49	44	16	18	-5.2	12.5	-2.8
PULMONARY DISEASE	1	0	0	0	0	2	0	12.2	-100.0	-100.0
RADIOLOGY	77	85	58	91	86	93	94	3.2	1.1	2.9
SPEECH PATHOLOGY/AUDIOLOGY	2,042	2,787	3,043	2,796	2,586	2,911	2,784	6.1	-4.4	4.5
SURGERY	26	22	21	23	16	26	4	.0	-84.6	-23.5
VETERINARY SCIENCES	150	147	175	182	227	191	171	4.1	-10.5	1.9
CLINICAL MEDICINE, N.E.C.	135	66	77	82	62	88	51	-6.9	-42.0	-13.0
HEALTH RELATED, N.E.C.	770	815	979	1,111	1,366	1,725	1,743	14.4	1.0	12.4
PSYCHOLOGY	7,819	8,593	10,470	10,254	10,268	10,925	10,690	5.7	-2.2	4.6
SOCIAL SCIENCES	21,334	26,751	25,878	25,776	25,885	26,787	27,244	3.9	1.7	3.6
AGRICULTURAL ECONOMICS	417	622	718	561	643	707	699	9.2	-1.1	7.7
ANTHROPOLOGY	2,305	2,639	2,712	2,797	2,364	2,447	2,298	1.0	-6.1	*
ECONOMICS (EXCEPT AGRICULTURAL)	2,631	3,289	3,024	3,223	3,300	3,795	4,027	6.3	6.1	6.3
GEOGRAPHY	757	932	970	840	761	841	811	1.8	-3.6	1.0
HISTORY AND PHILOSOPHY OF SCIENCE	109	107	102	98	88	83	73	-4.4	-12.0	-5.6
LINGUISTICS	725	1,075	998	742	745	971	922	5.0	-5.0	3.5
POLITICAL SCIENCE	5,675	7,702	6,912	6,805	7,119	6,547	7,138	2.4	9.0	3.3
SOCIOLOGY	2,372	2,575	2,608	2,388	1,949	2,165	1,946	-1.5	-10.1	-2.8
SOCIOLOGY/ANTHROPOLOGY	411	502	203	328	193	217	163	-10.1	-24.9	-12.4
SOCIAL SCIENCES, N.E.C.	5,932	7,308	7,631	7,994	8,724	9,014	9,167	7.2	1.7	6.4

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-39. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH U.S. CITIZENSHIP IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	163,768	177,193	179,689	180,597	178,663	181,957	181,870	1.8	*	1.5
ENGINEERING	22,679	25,289	24,291	23,777	23,642	24,852	26,023	1.5	4.7	2.0
AEROSPACE	868	831	713	705	631	759	848	-2.2	11.7	-.3
AGRICULTURAL	275	314	290	338	375	340	376	3.6	10.6	4.6
BIOMEDICAL	572	680	643	596	692	651	694	2.2	6.6	2.8
CHEMICAL	1,921	2,159	2,198	2,350	2,434	2,590	2,868	5.1	10.7	5.9
CIVIL	4,111	4,703	4,314	4,155	3,783	3,772	3,829	-1.4	1.5	-1.0
ELECTRICAL	5,325	5,589	5,344	5,324	5,093	5,530	5,503	.6	-.5	.5
ENGINEERING SCIENCE	782	788	839	766	785	807	844	.5	4.6	1.1
INDUSTRIAL	2,207	2,880	2,529	2,188	2,433	2,314	2,155	.8	-6.9	-.3
MECHANICAL	3,069	3,147	3,118	2,968	3,023	3,224	3,387	.8	5.1	1.4
METALLURGICAL/MATERIALS	955	1,059	1,112	1,161	1,090	1,129	1,321	2.8	17.0	4.7
MINING	187	252	322	314	273	246	291	4.7	18.3	6.5
NUCLEAR	748	855	838	767	642	612	616	-3.3	.7	-2.7
PETROLEUM	84	74	99	100	105	160	198	11.3	23.7	13.0
ENGINEERING, N.E.C.	1,575	1,958	1,932	2,045	2,283	2,718	3,093	9.5	13.8	10.1
PHYSICAL SCIENCES	16,805	16,926	17,200	17,229	16,617	16,697	16,578	-.1	-.7	-.2
ASTRONOMY	595	592	553	529	525	509	472	-2.6	-7.3	-3.3
CHEMISTRY	9,436	9,662	9,923	10,089	10,097	10,212	10,114	1.3	-1.0	1.0
PHYSICS	6,694	6,583	6,657	6,544	5,948	5,918	5,940	-2.0	.4	-1.7
PHYSICAL SCIENCES, N.E.C.	80	89	67	67	47	58	52	-5.2	-10.3	-6.0
ENVIRONMENTAL SCIENCES	7,496	8,004	8,416	8,577	8,615	8,629	8,807	2.4	2.1	2.3
ATMOSPHERIC SCIENCES	688	711	688	678	620	632	587	-1.4	-7.1	-2.2
GEOSCIENCES	4,700	5,041	5,349	5,443	5,676	5,815	5,896	3.6	1.4	3.3
OCEANOGRAPHY	1,337	1,284	1,325	1,370	1,312	1,332	1,355	-.1	1.7	.2
ENVIRONMENTAL SCIENCES, N.E.C.	771	968	1,054	1,086	1,007	850	969	1.6	14.0	3.3
MATHEMATICAL/COMPUTER SCIENCES	11,112	11,318	11,353	10,599	9,848	10,229	10,404	-1.4	1.7	-.9
COMPUTER SCIENCE	2,935	3,142	3,357	3,263	3,579	4,097	4,327	5.7	5.6	5.7
MATHEMATICS AND APPLIED MATHEMATICS	7,327	7,194	7,015	6,402	5,459	5,253	5,237	-5.4	-.3	-4.7
STATISTICS	850	982	981	934	810	879	840	.6	-4.4	-.2
LIFE SCIENCES	48,496	53,130	55,273	57,578	58,393	59,343	58,459	3.4	-1.5	2.7
AGRICULTURAL SCIENCES	6,043	6,764	7,172	7,440	7,328	7,467	7,335	3.6	-1.8	2.8
BIOLOGICAL SCIENCES	28,680	31,123	31,770	32,222	31,248	31,049	30,366	1.3	-2.2	.8
ANATOMY	875	922	983	980	945	909	882	.6	-3.0	.1
BIOCHEMISTRY	2,996	2,981	3,060	3,128	3,132	3,114	3,040	.6	-2.4	.2
BIOLOGY	7,086	8,294	8,503	8,330	7,670	7,440	7,061	.8	-5.1	-.1
BIOMETRY/EPIDEMIOLOGY	512	695	697	806	841	904	850	9.9	-6.0	7.5
BIOPHYSICS	508	539	527	487	450	436	412	-2.5	-5.5	-2.9
BOTANY	2,572	2,598	2,820	2,929	2,705	2,635	2,448	.4	-7.1	-.7
CELL BIOLOGY	477	548	507	561	630	721	777	7.1	7.8	7.2
ECOLOGY	563	695	758	895	769	870	845	7.5	-2.9	6.0
ENTOMOLOGY/PARASITOLOGY	998	1,148	1,170	1,147	1,233	1,293	1,197	4.4	-7.4	2.6
GENETICS	636	668	671	777	719	723	717	2.2	-.8	1.7
MICROBIOLOGY	3,022	3,160	3,222	3,284	3,015	3,056	2,978	.2	-2.6	-.2
NUTRITION	1,627	1,706	1,843	2,061	2,176	2,141	2,271	4.7	6.1	4.9
PATHOLOGY	771	832	858	862	924	867	848	2.0	-2.2	1.4
PHARMACOLOGY	1,139	1,329	1,426	1,502	1,643	1,688	1,693	6.8	.3	5.8
PHYSIOLOGY	1,746	1,914	1,807	1,756	1,677	1,651	1,717	-.9	4.0	-.2
ZOOLOGY	2,939	2,921	2,701	2,463	2,267	2,123	2,113	-5.3	-.5	-4.6
BIOSCIENCES, N.E.C.	213	173	217	254	452	478	517	14.4	8.2	13.5
HEALTH SCIENCES	13,773	15,243	16,331	17,916	19,817	20,827	20,758	7.1	-.3	6.0
ANESTHESIOLOGY	38	52	4	3	17	12	15	-17.5	25.0	-12.4
CANCER/ONCOLOGY	65	48	34	41	39	38	38	-8.6	.0	-7.4
CARDIOLOGY	39	17	0	3	3	12	4	-17.8	-66.7	-27.8
DENTISTRY	745	925	800	822	909	825	767	1.7	-7.0	.4
ENDOCRINOLOGY	23	38	28	28	43	47	43	12.6	-8.5	9.4
GASTROENTEROLOGY	39	10	8	8	0	0	2	-100.0	**	-34.6
HEMATOLOGY	20	3	3	F	13	8	9	-14.2	12.5	-10.8
NEUROLOGY	229	308	291	297	323	324	292	6.0	-9.9	3.5
NURSING	2,300	2,723	3,761	5,110	5,959	6,067	6,705	17.5	10.5	16.5
OBSTETRICS/GYNECOLOGY	50	43	44	20	25	4	8	-34.4	100.0	-23.0
OPHTHALMOLOGY	35	23	8	9	4	13	16	-15.2	23.1	-10.6
OTORHINOLARYNGOLOGY	65	41	52	52	21	18	15	-19.3	-16.7	-18.9
PEDIATRICS	179	149	138	107	86	103	111	-8.8	7.8	-6.6
PHARMACEUTICAL SCIENCES	951	1,071	1,019	1,155	1,130	1,183	1,139	3.7	-3.7	2.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,517	2,723	2,949	2,829	3,777	3,917	3,837	7.6	-2.0	6.2
PSYCHIATRY	161	120	110	124	116	59	57	-15.4	-3.4	-13.8
PULMONARY DISEASE	37	7	0	3	1	15	9	-14.0	-40.0	-18.3
RADIOLOGY	252	289	233	234	181	196	200	-4.1	2.0	-3.2
SPEECH PATHOLOGY/AUDIOLOGY	3,760	4,493	4,607	4,541	4,252	4,594	4,282	3.4	-6.8	1.9
SURGERY	91	97	89	74	46	56	64	-7.8	14.3	-4.9
VETERINARY SCIENCES	360	386	427	480	487	472	452	4.6	-4.2	3.3
CLINICAL MEDICINE, N.E.C.	409	211	170	203	204	243	201	-8.3	-17.3	-9.7
HEALTH RELATED, N.E.C.	1,408	1,466	1,556	1,768	2,181	2,621	2,492	10.9	-4.9	8.5
PSYCHOLOGY	18,348	19,120	20,861	20,604	19,727	20,519	20,639	1.9	.6	1.7
SOCIAL SCIENCES	38,832	43,406	42,295	42,233	41,821	41,688	40,960	1.2	-1.7	.8
AGRICULTURAL ECONOMICS	983	1,256	1,333	1,317	1,280	1,291	1,257	4.6	-2.6	3.6
ANTHROPOLOGY	4,350	4,608	4,639	4,638	4,143	4,087	3,823	-1.0	-6.5	-1.8
ECONOMICS (EXCEPT AGRICULTURAL)	5,027	5,692	5,219	5,278	5,018	5,520	5,510	1.6	-.2	1.3
GEOGRAPHY	1,810	1,941	2,004	1,867	1,589	1,735	1,749	-.7	.8	-.5
HISTORY AND PHILOSOPHY OF SCIENCE	227	234	246	232	204	216	187	-.8	-13.4	-2.7
LINGUISTICS	1,279	1,615	1,680	1,365	1,559	1,412	1,435	1.7	1.6	1.7
POLITICAL SCIENCE	9,241	11,023	10,349	10,361	10,623	9,943	10,400	1.2	4.6	1.7
SOCIOLOGY	5,583	5,621	5,608	5,249	4,568	4,599	4,257	-3.2	-7.4	-3.8
SOCIOLOGY/ANTHROPOLOGY	751	896	582	644	508	490	435	-6.9	-11.2	-7.5
SOCIAL SCIENCES, N.E.C.	9,581	10,520	10,635	11,282	12,329	12,395	11,907	4.4	-3.9	3.2

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-40. -- FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	31,687	33,128	34,401	36,857	44,751	48,735	52,659	7.4	8.1	7.5
ENGINEERING	11,002	11,900	12,292	13,408	16,283	17,629	19,343	8.2	9.7	8.4
AEROSPACE	377	394	440	473	520	565	598	7.0	5.8	6.8
AGRICULTURAL	159	198	248	287	277	296	301	10.9	1.7	9.5
BIOMEDICAL	122	105	103	114	128	132	154	1.3	16.7	3.4
CHEMICAL	1,414	1,449	1,573	1,628	1,874	1,988	2,215	5.8	11.4	6.6
CIVIL	1,828	1,966	1,870	2,189	2,803	3,057	3,264	8.9	6.8	8.6
ELECTRICAL	2,411	2,597	2,719	3,012	3,758	4,182	4,642	9.6	11.0	9.8
ENGINEERING SCIENCE	327	322	301	359	313	362	372	1.7	2.8	1.9
INDUSTRIAL	897	1,163	1,078	1,236	1,411	1,439	1,582	8.2	9.9	8.4
MECHANICAL	1,628	1,707	1,804	1,868	2,400	2,593	2,996	8.1	15.5	9.1
METALLURGICAL/MATERIALS	682	710	728	762	1,015	1,096	1,101	8.2	.5	7.1
MINING	140	154	174	166	121	143	162	.4	13.3	2.1
NUCLEAR	299	400	384	387	463	459	440	7.4	-4.1	5.7
PETROLEUM	150	154	224	201	231	210	192	5.8	-8.6	3.6
ENGINEERING, N.E.C.	568	581	646	726	969	1,107	1,324	11.8	19.6	12.9
PHYSICAL SCIENCES	4,450	4,391	4,423	4,572	5,165	5,584	6,056	3.9	8.5	4.5
ASTRONOMY	57	67	68	70	75	84	93	6.7	10.7	7.2
CHEMISTRY	2,316	2,352	2,466	2,488	2,745	2,869	3,056	3.6	6.5	4.0
PHYSICS	2,065	1,966	1,884	2,004	2,340	2,623	2,900	4.1	10.6	5.0
PHYSICAL SCIENCES, N.E.C.	12	6	5	10	5	8	7	-6.5	-12.5	-7.4
ENVIRONMENTAL SCIENCES	839	859	940	1,046	1,209	1,314	1,440	7.8	9.6	8.0
ATMOSPHERIC SCIENCES	110	121	134	129	156	145	179	4.7	23.4	7.2
GEOSCIENCES	530	539	597	674	720	799	865	7.1	8.3	7.2
OCEANOGRAPHY	127	130	143	161	196	223	249	9.8	11.7	10.1
ENVIRONMENTAL SCIENCES, N.E.C.	72	69	66	82	137	147	147	12.6	.0	10.7
MATHEMATICAL/COMPUTER SCIENCES	2,627	2,807	3,172	3,376	4,329	5,024	5,720	11.4	13.9	11.8
COMPUTER SCIENCE	801	944	1,011	1,028	1,581	1,910	2,262	15.6	18.4	16.0
MATHEMATICS AND APPLIED MATHEMATICS	1,430	1,425	1,668	1,816	2,152	2,488	2,773	9.7	11.5	9.9
STATISTICS	396	438	493	532	596	626	685	7.9	9.4	8.1
LIFE SCIENCES	6,511	6,482	6,720	6,868	8,189	8,497	9,058	4.5	6.6	4.8
AGRICULTURAL SCIENCES	1,563	1,727	1,858	1,849	2,042	2,175	2,288	5.7	5.2	5.6
BIOLOGICAL SCIENCES	3,500	3,432	3,473	3,594	4,103	4,221	4,488	3.2	6.3	3.6
ANATOMY	63	61	46	58	75	75	76	2.9	1.3	2.7
BIOCHEMISTRY	473	408	393	412	421	477	560	.1	17.4	2.4
BIOLOGY	481	549	568	568	669	713	723	6.8	1.4	6.0
BIOMETRY/EPIDEMIOLOGY	81	72	66	93	130	145	159	10.2	9.7	10.1
BIOPHYSICS	90	94	72	89	83	70	75	-4.1	7.1	-2.6
BOTANY	420	434	454	481	515	519	531	3.6	2.3	3.4
CELL BIOLOGY	61	67	58	62	60	59	77	-.6	30.5	3.4
ECOLOGY	29	33	31	32	50	67	72	15.0	7.5	13.9
ENTOMOLOGY/PARASITOLOGY	194	230	242	232	222	223	259	2.3	16.1	4.2
GENETICS	100	86	90	104	93	98	94	-.3	-4.1	-.9
MICROBIOLOGY	318	298	278	273	349	358	363	2.0	1.4	1.9
NUTRITION	649	607	633	673	747	741	793	2.2	7.0	2.9
PATHOLOGY	94	95	113	108	143	148	150	7.9	1.4	6.9
PHARMACOLOGY	157	159	148	151	194	184	197	2.7	7.1	3.3
PHYSIOLOGY	153	107	130	109	172	164	174	1.2	6.1	1.9
ZOOLOGY	115	110	131	126	137	131	134	2.2	2.3	2.2
BIOSCIENCES, N.E.C.	22	22	20	23	43	49	51	14.3	4.1	12.8
HEALTH SCIENCES	1,448	1,323	1,389	1,425	2,044	2,101	2,282	6.4	8.6	6.7
ANESTHESIOLOGY	21	3	1	0	1	1	1	-39.8	.0	-35.3
CANCER/ONCOLOGY	19	7	8	10	4	6	6	-17.5	.0	-15.2
CARDIOLOGY	4	5	0	0	0	5	1	3.8	-80.0	-18.0
DENTISTRY	119	111	169	176	244	269	250	14.6	-7.1	11.2
ENDOCRINOLOGY	5	4	5	3	1	1	3	-23.5	200.0	-7.0
GASTROENTEROLOGY	7	1	0	0	0	0	1	-100.0	**	-24.3
HEMATOLOGY	2	0	0	2	1	0	0	-100.0	**	-100.0
NEUROLOGY	26	19	12	17	21	23	24	-2.0	4.3	-1.1
NURSING	48	53	70	146	182	173	222	23.8	28.3	24.5
OBSTETRICS/GYNECOLOGY	7	8	8	5	8	1	2	-27.7	100.0	-16.4
OPHTHALMOLOGY	6	2	0	0	1	2	3	-16.7	50.0	-9.4
OTORHINOLARYNGOLOGY	1	9	12	4	3	0	0	-100.0	**	-100.0
PEDIATRICS	12	7	5	5	2	6	8	-10.9	33.3	-5.6
PHARMACEUTICAL SCIENCES	397	409	403	425	477	462	538	2.6	16.5	4.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	356	291	298	248	493	568	567	8.1	-.2	6.9
PSYCHIATRY	11	2	4	3	4	2	0	-24.7	-100.0	-100.0
PULMONARY DISEASE	10	0	0	0	0	0	0	-100.0	**	-100.0
RADIOLOGY	28	31	34	32	36	34	35	3.3	2.9	3.2
SPEECH PATHOLOGY/AUDIOLOGY	130	146	118	103	207	191	229	6.6	19.9	8.4
SURGERY	14	16	16	7	4	8	5	-8.9	-37.5	-13.7
VETERINARY SCIENCES	104	112	128	144	197	197	211	11.2	7.1	10.6
CLINICAL MEDICINE, N.E.C.	53	34	19	25	23	30	33	-9.0	10.0	-6.5
HEALTH RELATED, N.E.C.	68	53	79	70	133	122	143	10.2	17.2	11.2
PSYCHOLOGY	541	576	570	621	968	1,055	831	11.8	-21.2	6.3
SOCIAL SCIENCES	5,717	6,113	6,284	6,966	8,608	9,632	10,211	9.1	6.0	8.6
AGRICULTURAL ECONOMICS	584	623	587	623	650	736	757	3.9	2.9	3.8
ANTHROPOLOGY	274	254	253	286	321	389	422	6.0	8.5	6.4
ECONOMICS (EXCEPT AGRICULTURAL)	2,047	2,221	2,479	2,668	3,004	3,342	3,510	8.5	5.0	8.0
GEOGRAPHY	219	239	242	249	334	361	352	8.7	-2.5	7.0
HISTORY AND PHILOSOPHY OF SCIENCE	20	25	24	25	30	25	30	3.8	20.0	6.0
LINGUISTICS	328	358	400	458	611	739	732	14.5	-.9	12.2
POLITICAL SCIENCE	1,062	1,235	1,137	1,397	1,996	2,240	2,413	13.2	7.7	12.4
SOCIOLOGY	661	633	642	679	818	921	1,042	5.7	13.1	6.7
SOCIOLOGY/ANTHROPOLOGY	53	54	56	61	106	98	91	10.8	-7.1	8.0
SOCIAL SCIENCES, N.E.C.	469	471	464	520	738	781	862	8.9	10.4	9.1

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-41. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	69,834	83,433	84,070	89,116	93,228	97,181	103,207	105,674	6.7	2.4	6.1
ENGINEERING	22,960	27,540	27,701	28,725	28,373	29,015	29,816	31,620	4.5	6.1	4.7
AEROSPACE	409	411	296	318	315	325	406	396	-.1	-2.5	-.5
AGRICULTURAL	84	87	113	93	128	101	116	135	5.5	16.4	7.0
BIOMEDICAL	104	108	170	151	190	173	170	154	8.5	-9.4	5.8
CHEMICAL	1,398	1,454	1,423	1,239	1,297	1,266	1,484	1,396	1.0	-5.9	*
CIVIL	4,176	4,670	4,419	4,473	4,379	4,454	4,441	4,401	1.0	-.9	.8
ELECTRICAL	7,625	7,421	7,148	8,020	8,144	7,967	8,450	8,760	1.7	3.7	2.0
ENGINEERING SCIENCE	562	556	595	539	559	476	529	587	-1.0	11.0	.6
INDUSTRIAL	2,945	6,920	7,470	7,266	6,818	7,540	6,994	7,504	15.5	7.3	14.3
MECHANICAL	3,352	3,239	3,007	3,357	3,254	3,217	3,425	3,727	.4	8.8	1.5
METALLURGICAL/MATERIALS	516	530	476	545	521	534	590	606	2.3	2.7	2.3
MINING	58	92	135	133	129	122	137	117	15.4	-14.6	10.5
NUCLEAR	413	356	366	318	273	247	211	265	-10.6	25.6	-6.1
PETROLEUM	44	74	53	78	99	87	130	128	19.8	-1.5	16.5
ENGINEERING, N.E.C.	1,274	1,622	2,030	2,195	2,267	2,506	2,733	3,444	13.6	26.0	15.3
PHYSICAL SCIENCES	3,266	3,246	3,225	3,051	3,205	3,132	3,134	3,174	-.7	1.3	-.4
ASTRONOMY	60	52	60	45	37	38	35	32	-8.6	-8.6	-8.6
CHEMISTRY	1,973	2,046	2,015	2,026	2,122	2,044	2,029	2,083	.5	2.7	.8
PHYSICS	1,197	1,129	1,133	966	1,020	1,035	1,055	1,043	-2.1	-1.1	-1.9
PHYSICAL SCIENCES, N.E.C.	36	19	17	14	26	15	15	16	-13.6	6.7	-10.9
ENVIRONMENTAL SCIENCES	1,680	1,941	1,960	2,142	2,085	2,229	2,310	2,396	5.5	3.7	5.2
ATMOSPHERIC SCIENCES	168	105	108	112	121	104	127	139	-4.6	9.4	-2.7
GEOSCIENCES	1,013	1,092	1,093	1,151	1,212	1,366	1,313	1,400	4.4	6.6	4.7
OCEANOGRAPHY	181	296	270	404	343	342	318	344	9.8	8.2	9.6
ENVIRONMENTAL SCIENCES, N.E.C.	318	448	489	475	409	417	552	513	9.6	-7.1	7.1
MATHEMATICAL/COMPUTER SCIENCES	6,866	7,218	7,142	7,096	7,784	8,445	9,728	10,936	6.0	12.4	6.9
COMPUTER SCIENCE	2,573	2,866	2,953	3,294	4,125	4,754	5,765	6,963	14.4	20.8	15.3
MATHEMATICS AND APPLIED MATHEMATICS	3,955	3,976	3,830	3,472	3,315	3,349	3,590	3,663	-1.6	2.0	-1.1
STATISTICS	338	376	359	330	344	342	373	310	1.7	-16.9	-1.2
LIFE SCIENCES	11,731	13,962	15,324	19,124	20,778	21,081	23,012	23,689	11.9	2.9	10.6
AGRICULTURAL SCIENCES	1,318	1,553	1,554	1,640	1,822	1,902	1,996	1,709	7.2	-14.4	3.8
BIOLOGICAL SCIENCES	5,410	6,069	6,340	6,930	7,113	6,727	6,789	6,438	3.9	-5.2	2.5
ANATOMY	95	91	83	112	96	78	76	82	-3.7	7.9	-2.1
BIOCHEMISTRY	249	266	227	216	283	297	256	258	.5	.8	.5
BIOLOGY	2,257	2,740	2,848	2,888	2,818	2,664	2,757	2,492	3.4	-9.6	1.4
BIOMETRY/EPIDEMIOLOGY	125	104	121	171	166	162	216	198	9.5	-8.3	6.8
BIOPHYSICS	40	95	25	23	16	31	16	13	-14.2	-18.8	-14.8
BOTANY	354	413	429	411	424	355	407	433	2.4	6.4	2.9
CELL BIOLOGY	23	21	30	35	14	16	19	17	-3.1	-10.5	-4.2
ECOLOGY	39	61	96	93	120	135	143	86	24.2	-39.9	12.0
ENTOMOLOGY/PARASITOLOGY	169	179	178	213	197	226	187	198	1.7	5.9	2.3
GENETICS	48	60	71	73	88	90	75	61	7.7	-18.7	3.5
MICROBIOLOGY	458	395	478	526	564	448	372	356	-3.4	-4.3	-3.5
NUTRITION	388	397	522	845	896	728	913	1,007	15.3	10.3	14.6
PATHOLOGY	182	342	374	470	442	465	454	432	16.5	-4.8	13.1
PHARMACOLOGY	122	97	115	121	136	144	119	97	-.4	-18.5	-3.2
PHYSIOLOGY	288	189	192	143	278	285	239	207	-3.1	-13.4	-4.6
ZOOLOGY	443	462	411	435	449	458	396	354	-1.9	-10.6	-3.2
BIOSCIENCES, N.E.C.	130	157	140	155	126	145	144	147	1.7	2.1	1.8
HEALTH SCIENCES	5,003	6,340	7,430	10,554	11,843	12,452	14,227	15,542	19.0	9.2	17.6
ANESTHESIOLOGY	0	0	0	2	3	2	4	4	**	.0	**
CANCER/ONCOLOGY	1	4	5	0	0	2	2	2	12.2	.0	10.4
CARDIOLOGY	4	1	2	2	0	0	0	0	-100.0	**	-100.0
DENTISTRY	133	195	184	239	254	172	193	280	6.4	45.1	11.2
ENDOCRINOLOGY	3	0	4	7	3	6	5	5	8.9	.0	7.6
GASTROENTEROLOGY	1	4	0	0	0	0	0	1	-100.0	**	.0
HEMATOLOGY	0	0	1	11	8	6	8	0	**	-100.0	**
NEUROLOGY	12	6	9	9	4	9	11	3	-1.4	-72.7	-18.0
NURSING	1,524	1,993	2,791	4,731	5,247	5,460	6,510	7,272	27.4	11.7	25.0
OBSTETRICS/GYNECOLOGY	13	2	7	2	3	3	1	3	-34.8	200.0	-18.9
OPHTHALMOLOGY	4	5	5	7	1	1	1	3	-20.6	200.0	-6.0
OTORHINOLARYNGOLOGY	3	4	4	1	1	2	0	0	-100.0	**	-100.0
PEDIATRICS	30	27	72	40	43	3	7	2	-21.5	-71.4	-32.1
PHARMACEUTICAL SCIENCES	650	765	795	907	949	851	825	913	4.1	10.7	5.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	659	752	1,136	1,465	1,675	2,007	2,499	2,660	24.9	6.4	22.1
PSYCHIATRY	77	54	33	23	23	13	2	49	-45.6	2350.0	-6.3
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	55	57	15	41	33	63	50	40	-1.6	-20.0	-4.4
SPEECH PATHOLOGY/AUDIOLOGY	1,233	1,674	1,529	1,878	2,134	2,104	2,083	2,134	9.1	2.4	8.2
SURGERY	32	11	12	18	15	2	2	6	-37.0	200.0	-21.3
VETERINARY SCIENCES	142	163	166	183	230	221	224	241	7.9	7.6	7.8
CLINICAL MEDICINE, N.E.C.	59	27	51	86	115	118	124	143	13.2	15.3	13.5
HEALTH RELATED, N.E.C.	368	596	609	922	1,102	1,407	1,676	1,781	28.7	6.3	25.3
PSYCHOLOGY	5,964	7,208	6,591	6,779	7,193	7,225	7,796	7,487	4.6	-4.0	3.3
SOCIAL SCIENCES	17,367	22,318	22,127	22,199	23,810	26,054	27,411	26,372	7.9	-3.8	6.1
AGRICULTURAL ECONOMICS	147	211	215	237	230	246	268	217	10.5	-19.0	5.7
ANTHROPOLOGY	1,120	1,364	1,314	1,264	1,365	1,447	1,447	1,557	4.4	7.6	4.8
ECONOMICS (EXCEPT AGRICULTURAL)	2,892	3,024	3,194	3,089	3,078	3,174	3,304	3,314	2.2	.3	2.0
GEOGRAPHY	766	778	840	783	771	727	695	684	-1.6	-1.6	-1.6
HISTORY AND PHILOSOPHY OF SCIENCE	40	44	52	43	40	31	39	31	-.4	-20.5	-3.6
LINGUISTICS	278	390	357	459	393	641	597	739	13.6	23.8	15.0
POLITICAL SCIENCE	5,926	8,478	8,789	8,637	9,554	11,362	12,607	11,543	13.4	-8.4	10.0
SOCIOLOGY	2,292	2,508	2,327	2,191	2,308	2,204	2,090	2,053	-1.5	-1.8	-1.6
SOCIOLOGY/ANTHROPOLOGY	420	515	527	430	411	431	413	441	-.3	6.8	.7
SOCIAL SCIENCES, N.E.C.	3,486	5,006	4,512	5,066	5,660	5,791	5,951	5,793	9.3	-2.7	7.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-42. -- MALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-81 1/

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1977-80	1980-81	1977-81
TOTAL, ALL FIELDS	63,396	64,422	66,852	66,460	1.8	-0.6	1.2
ENGINEERING	27,324	26,811	27,313	28,489	*	4.3	1.0
AEROSPACE	312	312	386	380	7.4	-1.6	5.1
AGRICULTURAL	91	97	115	134	8.1	16.5	10.2
BIOMEDICAL	139	162	139	130	.0	-6.5	-1.7
CHEMICAL	1,144	1,095	1,251	1,147	3.0	-8.3	.1
CIVIL	4,264	4,144	4,059	4,015	-1.6	-1.1	-1.5
ELECTRICAL	7,711	7,517	8,047	8,257	1.4	2.6	1.7
ENGINEERING SCIENCE	514	420	472	497	-2.8	5.3	-.8
INDUSTRIAL	6,803	6,777	6,129	6,329	-3.4	3.3	-1.8
MECHANICAL	3,237	3,038	3,235	3,459	*	6.9	1.7
METALLURGICAL/MATERIALS	512	473	523	514	.7	-1.7	.1
MINING	125	114	131	109	1.6	-16.8	-3.4
NUCLEAR	309	236	202	252	-13.2	24.8	-5.0
PETROLEUM	75	85	116	110	15.6	-5.2	10.0
ENGINEERING, N.E.C.	2,088	2,341	2,508	3,156	6.3	25.8	10.9
PHYSICAL SCIENCES	2,499	2,474	2,451	2,432	-.6	-.8	-.7
ASTRONOMY	38	31	25	24	-13.0	-4.0	-10.9
CHEMISTRY	1,565	1,496	1,473	1,474	-2.0	.1	-1.5
PHYSICS	884	934	944	927	2.2	-1.8	1.2
PHYSICAL SCIENCES, N.E.C.	12	13	9	7	-9.1	-22.2	-12.6
ENVIRONMENTAL SCIENCES	1,829	1,765	1,784	1,773	-.8	-.6	-.8
ATMOSPHERIC SCIENCES	106	93	107	121	.3	13.1	3.4
GEOSCIENCES	951	1,072	1,042	1,060	3.1	1.7	2.7
OCEANOGRAPHY	359	282	251	248	-11.2	-1.2	-8.8
ENVIRONMENTAL SCIENCES, N.E.C.	413	318	384	344	-2.4	-10.4	-4.5
MATHEMATICAL/COMPUTER SCIENCES	5,294	6,216	7,161	7,815	10.6	9.1	10.2
COMPUTER SCIENCE	2,658	3,733	4,441	5,125	18.7	15.4	17.8
MATHEMATICS AND APPLIED MATHEMATICS	2,408	2,258	2,457	2,477	.7	.8	.7
STATISTICS	228	225	263	213	4.9	-19.0	-1.7
LIFE SCIENCES	8,392	8,247	8,620	8,142	.9	-5.5	-.8
AGRICULTURAL SCIENCES	1,392	1,512	1,571	1,370	4.1	-12.8	-.4
BIOLOGICAL SCIENCES	4,158	3,830	3,716	3,264	-3.7	-12.2	-5.9
ANATOMY	72	47	46	48	-13.9	4.3	-9.6
BIOCHEMISTRY	136	179	162	161	6.0	-.6	4.3
BIOLOGY	1,895	1,560	1,633	1,411	-4.8	-13.6	-7.1
BIOMETRY/EPIDEMIOLOGY	87	86	105	91	6.5	-13.3	1.1
BIOPHYSICS	21	25	10	7	-21.9	-30.0	-24.0
BOTANY	306	237	268	269	-4.3	.4	-3.2
CELL BIOLOGY	25	12	12	9	-21.7	-25.0	-22.5
ECOLOGY	71	98	116	67	17.8	-42.2	-1.4
ENTOMOLOGY/PARASITOLOGY	176	184	147	157	-5.8	6.8	-2.8
GENETICS	29	51	30	19	1.1	-36.7	-10.0
MICROBIOLOGY	269	261	198	174	-9.7	-12.1	-10.3
NUTRITION	216	163	196	169	-3.2	-13.8	-6.0
PATHOLOGY	261	239	215	176	-6.3	-18.1	-9.4
PHARMACOLOGY	94	91	74	58	-7.7	-21.6	-11.4
PHYSIOLOGY	94	187	159	141	19.1	-11.3	10.7
ZOOLOGY	296	316	256	220	-4.7	-14.1	-7.1
BIOSCIENCES, N.E.C.	110	94	89	87	-6.8	-2.2	-5.7
HEALTH SCIENCES	2,842	2,905	3,333	3,508	5.5	5.3	5.4
ANESTHESIOLOGY	2	2	1	0	-20.6	-100.0	-100.0
CANCER/ONCOLOGY	0	2	2	2	**	.0	**
CARDIOLOGY	2	0	0	0	-100.0	**	-100.0
DENTISTRY	181	129	139	172	-8.4	23.7	-1.3
ENDOCRINOLOGY	6	2	5	4	-5.9	-20.0	-9.6
GASTROENTEROLOGY	0	0	0	0	**	**	**
HEMATOLOGY	4	3	2	0	-20.6	-100.0	-100.0
NEUROLOGY	8	6	10	2	7.7	-80.0	-29.3
NURSING	100	189	316	328	46.7	3.8	34.6
OBSTETRICS/GYNECOLOGY	1	1	0	1	-100.0	**	.0
OPHTHALMOLOGY	7	1	1	1	-47.7	.0	-38.5
OTORHINOLARYNGOLOGY	1	1	0	0	-100.0	**	-100.0
PEDIATRICS	9	1	3	1	-30.7	-66.7	-42.3
PHARMACEUTICAL SCIENCES	565	541	570	654	.3	14.7	3.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	784	959	1,206	1,240	15.4	2.8	12.1
PSYCHIATRY	12	3	1	30	-56.3	2900.0	25.7
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	30	60	45	29	14.5	-35.6	-.8
SPEECH PATHOLOGY/AUDIOLOGY	402	356	318	290	-7.5	-8.8	-7.8
SURGERY	18	2	1	3	-61.8	200.0	-36.1
VETERINARY SCIENCES	131	157	144	143	3.2	-.7	2.2
CLINICAL MEDICINE, N.E.C.	47	36	41	67	-4.5	63.4	9.3
HEALTH RELATED, N.E.C.	532	454	528	541	-.3	2.5	.4
PSYCHOLOGY	3,644	3,312	3,604	3,304	-.4	-8.3	-2.4
SOCIAL SCIENCES	14,414	15,597	15,919	14,505	3.4	-8.9	.2
AGRICULTURAL ECONOMICS	197	201	216	185	3.1	-14.4	-1.6
ANTHROPOLOGY	640	736	676	711	1.8	5.2	2.7
ECONOMICS (EXCEPT AGRICULTURAL)	2,458	2,413	2,484	2,389	.4	-3.8	-.7
GEOGRAPHY	605	520	491	473	-6.7	-3.7	-6.0
HISTORY AND PHILOSOPHY OF SCIENCE	32	20	21	17	-13.1	-19.0	-14.6
LINGUISTICS	203	293	266	314	9.4	18.0	11.5
POLITICAL SCIENCE	6,128	7,372	7,897	6,845	8.8	-13.3	2.8
SOCIOLOGY	1,183	1,128	1,047	982	-4.0	-6.2	-4.5
SOCIOLOGY/ANTHROPOLOGY	290	201	204	198	-11.1	-2.9	-9.1
SOCIAL SCIENCES, N.E.C.	2,678	2,713	2,617	2,391	-.8	-8.6	-2.8

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-43. -- FEMALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-81 1/

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1977-80	1980-81	1977-81
TOTAL, ALL FIELDS	25,720	32,759	36,355	39,214	12.2	7.9	11.1
ENGINEERING	1,401	2,204	2,503	3,131	21.3	25.1	22.3
AEROSPACE	6	13	20	16	49.4	-20.0	27.8
AGRICULTURAL	2	4	1	1	-20.6	.0	-15.9
BIOMEDICAL	12	11	31	24	37.2	-22.6	18.9
CHEMICAL	95	171	233	249	34.9	6.9	27.2
CIVIL	209	310	382	386	22.3	1.0	16.6
ELECTRICAL	309	450	403	503	9.3	24.8	13.0
ENGINEERING SCIENCE	25	56	57	90	31.6	57.9	37.7
INDUSTRIAL	463	763	865	1,175	23.2	35.8	26.2
MECHANICAL	120	179	190	268	16.6	41.1	22.2
METALLURGICAL/MATERIALS	33	61	67	92	26.6	37.3	29.2
MINING	8	8	6	8	-9.1	33.3	.0
NUCLEAR	9	11	9	13	.0	44.4	9.6
PETROLEUM	3	2	14	18	67.1	28.6	56.5
ENGINEERING, N.E.C.	107	165	225	288	28.1	28.0	28.1
PHYSICAL SCIENCES	552	658	683	742	7.4	8.6	7.7
ASTRONOMY	7	7	10	8	12.6	-20.0	3.4
CHEMISTRY	461	548	556	609	6.4	9.5	7.2
PHYSICS	82	101	111	116	10.6	4.5	9.1
PHYSICAL SCIENCES, N.E.C.	2	2	6	9	44.2	50.0	45.6
ENVIRONMENTAL SCIENCES	313	464	526	623	18.9	18.4	18.8
ATMOSPHERIC SCIENCES	6	11	20	18	49.4	-10.0	31.6
GEOSCIENCES	200	294	271	340	10.7	25.5	14.2
OCEANOGRAPHY	45	60	67	96	14.2	43.3	20.9
ENVIRONMENTAL SCIENCES, N.E.C.	62	99	168	169	39.4	.6	28.5
MATHEMATICAL/COMPUTER SCIENCES	1,802	2,229	2,567	3,121	12.5	21.6	14.7
COMPUTER SCIENCE	636	1,021	1,324	1,838	27.7	38.8	30.4
MATHEMATICS AND APPLIED MATHEMATICS	1,064	1,091	1,133	1,186	2.1	4.7	2.8
STATISTICS	102	117	110	97	2.5	-11.8	-1.2
LIFE SCIENCES	10,732	12,834	14,392	15,547	10.3	8.0	9.7
AGRICULTURAL SCIENCES	248	390	425	339	19.7	-20.2	8.1
BIOLOGICAL SCIENCES	2,772	2,897	3,073	3,174	3.5	3.3	3.4
ANATOMY	40	31	30	34	-9.1	13.3	-4.0
BIOCHEMISTRY	80	118	94	97	5.5	3.2	4.9
BIOLOGY	993	1,104	1,124	1,081	4.2	-3.8	2.1
BIOMETRY/EPIDEMIOLOGY	84	76	111	107	9.7	-3.6	6.2
BIOPHYSICS	2	6	6	6	44.2	.0	31.6
BOTANY	105	118	139	164	9.8	18.0	11.8
CELL BIOLOGY	10	4	7	8	-11.2	14.3	-5.4
ECOLOGY	22	37	27	19	7.1	-29.6	-3.6
ENTOMOLOGY/PARASITOLOGY	37	42	40	41	2.6	2.5	2.6
GENETICS	44	39	45	42	.8	-6.7	-1.2
MICROBIOLOGY	257	187	174	182	-12.2	4.6	-8.3
NUTRITION	629	565	717	838	4.5	16.9	7.4
PATHOLOGY	209	226	239	256	4.6	7.1	5.2
PHARMACOLOGY	27	53	45	39	18.6	-13.3	9.6
PHYSIOLOGY	49	98	80	66	17.8	-17.5	7.7
ZOOLOGY	139	142	140	134	.2	-4.3	-.9
BIOSCIENCES, N.E.C.	45	51	55	60	6.9	9.1	7.5
HEALTH SCIENCES	7,712	9,547	10,894	12,034	12.2	10.5	11.8
ANESTHESIOLOGY	0	0	3	\	**	33.3	**
CANCER/ONCOLOGY	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0
DENTISTRY	58	43	54	108	-2.4	100.0	16.8
ENDOCRINOLOGY	1	4	0	1	-100.0	**	.0
GASTROENTEROLOGY	0	0	0	1	**	**	**
HEMATOLOGY	7	3	6	0	-5.0	-100.0	-100.0
NEUROLOGY	1	3	1	1	.0	.0	.0
NURSING	4,631	5,271	6,194	6,944	10.2	12.1	10.7
OBSTETRICS/GYNECOLOGY	1	2	1	2	.0	100.0	18.9
OPHTHALMOLOGY	0	0	0	2	**	**	**
OTORHINOLARYNGOLOGY	0	1	0	0	**	**	**
PEDIATRICS	31	2	4	1	-49.5	-75.0	-57.6
PHARMACEUTICAL SCIENCES	342	310	255	259	-9.3	1.6	-6.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	661	1,048	1,293	1,420	25.1	9.8	21.1
PSYCHIATRY	11	10	1	19	-55.0	1800.0	14.6
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	11	3	5	11	-23.1	120.0	.0
SPEECH PATHOLOGY/AUDIOLOGY	1,476	1,748	1,765	1,844	6.1	4.5	5.7
SURGERY	0	0	1	3	**	200.0	**
VETERINARY SCIENCES	52	64	80	98	15.4	22.5	17.2
CLINICAL MEDICINE, N.E.C.	39	82	83	76	28.6	-8.4	18.2
HEALTH RELATED, N.E.C.	390	953	1,148	1,240	43.3	8.0	33.5
PSYCHOLOGY	3,135	3,913	4,192	4,183	10.2	-.2	7.5
SOCIAL SCIENCES	7,785	10,457	11,492	11,867	13.9	3.3	11.1
AGRICULTURAL ECONOMICS	40	45	52	32	9.1	-38.5	-5.4
ANTHROPOLOGY	624	711	771	846	7.3	9.7	7.9
ECONOMICS (EXCEPT AGRICULTURAL)	631	761	820	925	9.1	12.8	10.0
GEOGRAPHY	178	207	204	211	4.6	3.4	4.3
HISTORY AND PHILOSOPHY OF SCIENCE	11	11	18	14	17.8	-22.2	6.2
LINGUISTICS	256	348	331	425	8.9	28.4	13.5
POLITICAL SCIENCE	2,509	3,990	4,710	4,698	23.4	-.3	17.0
SOCIOLOGY	1,008	1,076	1,043	1,071	1.1	2.7	1.5
SOCIOLOGY/ANTHROPOLOGY	140	230	209	243	14.3	16.3	14.8
SOCIAL SCIENCES, N.E.C.	2,388	3,078	3,334	3,402	11.8	2.0	9.3

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-44. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	43,018	50,129	49,653	51,275	54,693	56,436	59,709	59,416	5.6	-0.5	4.7
ENGINEERING	12,766	13,565	13,587	13,450	13,519	13,324	13,788	14,239	1.3	3.3	1.6
AEROSPACE	307	334	244	246	249	257	287	269	-1.1	-6.3	-1.9
AGRICULTURAL	82	86	112	93	128	101	116	135	6.0	16.4	7.4
BIOMEDICAL	19	39	103	57	82	79	85	65	28.4	-23.5	19.2
CHEMICAL	836	964	906	737	792	770	940	831	2.0	-11.6	-.1
CIVIL	2,386	2,669	2,524	2,673	2,644	2,593	2,515	2,404	.9	-4.4	.1
ELECTRICAL	3,577	3,439	3,300	3,604	3,592	3,622	3,520	3,588	-.3	1.9	*
ENGINEERING SCIENCE	524	524	571	510	522	429	463	512	-2.0	10.6	-.3
INDUSTRIAL	1,465	1,887	2,049	1,669	1,698	1,599	1,587	1,503	1.3	-5.3	.4
MECHANICAL	1,952	2,003	1,954	1,958	1,971	1,852	1,999	2,087	.4	4.4	1.0
METALLURGICAL/MATERIALS	289	303	258	262	257	274	313	283	1.3	-9.6	-.3
MINING	55	87	129	128	124	117	132	114	15.7	-13.6	11.0
NUCLEAR	187	165	209	185	176	173	135	184	-5.3	36.3	-.2
PETROLEUM	10	16	32	45	62	60	45	37	28.5	-17.8	20.6
ENGINEERING, N.E.C.	1,077	1,049	1,196	1,283	1,222	1,398	1,651	2,227	7.4	34.9	10.9
PHYSICAL SCIENCES	1,903	1,983	1,927	1,827	1,985	1,993	1,933	1,953	.3	1.0	.4
ASTRONOMY	55	46	53	39	37	36	31	31	-9.1	.0	-7.9
CHEMISTRY	1,181	1,263	1,212	1,169	1,242	1,245	1,175	1,202	-.1	2.3	.3
PHYSICS	635	655	645	605	692	697	712	704	1.9	-1.1	1.5
PHYSICAL SCIENCES, N.E.C.	32	19	17	14	14	15	15	16	-11.9	6.7	-9.4
ENVIRONMENTAL SCIENCES	1,355	1,637	1,673	1,768	1,760	1,924	2,021	2,110	6.9	4.4	6.5
ATMOSPHERIC SCIENCES	78	90	98	109	120	103	99	128	4.1	29.3	7.3
GEOSCIENCES	814	836	855	932	1,015	1,116	1,094	1,175	5.1	7.4	5.4
OCEANOGRAPHY	149	264	237	258	226	308	303	328	12.6	8.3	11.9
ENVIRONMENTAL SCIENCES, N.E.C.	314	447	483	469	399	397	525	479	8.9	-8.8	6.2
MATHEMATICAL/COMPUTER SCIENCES	4,240	4,711	4,731	4,367	4,654	4,747	5,315	5,482	3.8	3.1	3.7
COMPUTER SCIENCE	1,603	1,858	1,958	1,911	2,241	2,367	2,871	3,182	10.2	10.8	10.3
MATHEMATICS AND APPLIED MATHEMATICS	2,374	2,572	2,514	2,211	2,150	2,116	2,148	2,059	-1.7	-4.1	-2.0
STATISTICS	263	281	259	245	263	264	296	241	2.0	-18.6	-1.2
LIFE SCIENCES	8,704	10,496	11,162	12,843	14,355	14,742	16,341	16,032	11.1	-1.9	9.1
AGRICULTURAL SCIENCES	1,306	1,542	1,545	1,624	1,807	1,886	1,986	1,696	7.2	-14.6	3.8
BIOLOGICAL SCIENCES	3,759	4,101	4,172	4,506	4,842	4,548	4,755	4,284	4.0	-9.9	1.9
ANATOMY	72	69	63	74	73	58	55	50	-4.4	-9.1	-5.1
BIOCHEMISTRY	186	221	183	175	198	219	162	121	-2.3	-25.3	-6.0
BIOLOGY	1,257	1,451	1,515	1,449	1,548	1,462	1,652	1,372	4.7	-16.9	1.3
BIOMETRY/EPIDEMIOLOGY	63	62	61	98	105	111	138	105	14.0	-23.9	7.6
BIOPHYSICS	40	92	23	21	16	31	16	13	-14.2	-18.8	-14.8
BOTANY	325	378	388	386	392	333	387	406	3.0	4.9	3.2
CELL BIOLOGY	13	10	15	26	9	13	13	12	.0	-7.7	-1.1
ECOLOGY	39	61	95	93	120	135	143	86	24.2	-39.9	12.0
ENTOMOLOGY/PARASITOLOGY	166	179	178	210	193	222	184	196	1.7	6.5	2.4
GENETICS	31	50	34	32	38	45	27	28	-2.3	3.7	-1.4
MICROBIOLOGY	368	293	378	401	481	375	310	254	-2.8	-18.1	-5.2
NUTRITION	345	336	446	715	806	609	784	814	14.7	3.8	13.0
PATHOLOGY	109	212	134	184	166	197	216	214	12.1	-.9	10.1
PHARMACOLOGY	80	59	75	78	80	62	72	57	-1.7	-20.8	-4.7
PHYSIOLOGY	227	148	151	113	165	185	162	152	-5.5	-6.2	-5.6
ZOOLOGY	397	446	405	416	422	437	378	327	-.8	-13.5	-2.7
BIOSCIENCES, N.E.C.	41	34	28	35	30	54	56	77	5.3	37.5	9.4
HEALTH SCIENCES	3,639	4,853	5,445	6,713	7,706	8,308	9,600	10,052	17.5	4.7	15.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	1	4	5	0	0	2	2	2	12.2	.0	10.4
CARDIOLOGY	0	0	2	0	0	0	0	0	**	**	**
DENTISTRY	109	110	106	118	144	121	138	184	4.0	33.3	7.8
ENDOCRINOLOGY	3	0	2	2	3	6	5	5	8.9	.0	7.6
GASTROENTEROLOGY	1	0	0	0	0	0	0	0	-100.0	**	-100.0
HEMATOLOGY	0	0	0	0	0	0	1	0	**	-100.0	**
NEUROLOGY	7	6	2	2	3	9	6	3	-2.5	-50.0	-11.4
NURSING	1,381	1,813	2,322	3,173	3,658	3,887	4,892	5,063	23.5	3.5	20.4
OBSTETRICS/GYNECOLOGY	12	2	5	0	1	1	0	2	-100.0	**	-22.6
OPHTHALMOLOGY	2	5	4	6	1	1	1	3	-10.9	200.0	6.0
OTORHINOLARYNGOLOGY	0	4	4	0	1	2	0	0	**	**	**
PEDIATRICS	27	21	69	37	38	0	3	1	-30.7	-66.7	-37.6
PHARMACEUTICAL SCIENCES	242	229	208	216	226	207	230	251	-.8	9.1	.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	380	520	689	846	927	1,096	1,285	1,318	22.5	2.6	15.4
PSYCHIATRY	51	28	26	10	10	0	2	15	-43.4	650.0	-18.2
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	42	54	13	40	32	58	48	34	2.3	-29.2	-3.0
SPEECH PATHOLOGY/AUDIOLOGY	992	1,329	1,281	1,554	1,733	1,794	1,743	1,828	9.8	4.9	9.1
SURGERY	30	10	8	7	7	0	2	0	-36.3	-100.0	-100.0
VETERINARY SCIENCES	142	162	166	183	230	221	224	241	7.9	7.6	7.8
CLINICAL MEDICINE, N.E.C.	32	27	48	85	95	92	112	114	23.2	1.8	19.9
HEALTH RELATED, N.E.C.	175	529	485	434	597	811	906	988	31.5	9.1	28.1
PSYCHOLOGY	2,722	3,628	2,969	3,193	3,260	3,353	3,676	3,487	5.1	-5.1	3.6
SOCIAL SCIENCES	11,328	14,109	13,604	13,827	15,160	16,353	16,635	16,113	6.6	-3.1	5.2
AGRICULTURAL ECONOMICS	147	211	215	237	230	246	268	215	10.5	-19.8	5.6
ANTHROPOLOGY	762	881	928	869	995	1,032	1,023	1,104	5.0	7.9	5.4
ECONOMICS (EXCEPT AGRICULTURAL)	1,736	1,852	1,825	1,746	1,960	1,850	1,916	1,732	1.7	-9.6	*
GEOGRAPHY	712	715	806	745	732	669	652	653	-1.5	.2	-1.2
HISTORY AND PHILOSOPHY OF SCIENCE	12	23	29	28	21	17	26	19	13.8	-26.9	6.8
LINGUISTICS	148	220	178	250	248	273	267	415	10.3	55.4	15.9
POLITICAL SCIENCE	3,823	4,823	4,701	4,892	5,147	6,182	6,744	6,242	9.9	-7.4	7.3
SOCIOLOGY	1,527	1,730	1,507	1,377	1,605	1,502	1,357	1,351	-1.9	-.4	-1.7
SOCIOLOGY/ANTHROPOLOGY	255	338	373	256	251	225	200	204	-4.0	2.0	-3.1
SOCIAL SCIENCES, N.E.C.	2,206	3,316	3,042	3,427	3,971	4,357	4,182	4,178	11.2	-.1	9.6

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-45. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	26,816	33,304	34,417	37,841	38,535	40,745	43,498	46,258	8.4	6.3	8.1
ENGINEERING	10,194	13,975	14,114	15,275	14,854	15,691	16,028	17,381	7.8	8.4	7.9
AEROSPACE	102	77	52	72	66	68	119	127	2.6	6.7	3.2
AGRICULTURAL	2	1	1	0	0	0	0	0	-100.0	**	-100.0
BIOMEDICAL	85	69	67	94	108	94	85	89	.0	4.7	.7
CHEMICAL	562	490	517	502	505	496	544	565	-.5	3.9	.1
CIVIL	1,790	2,001	1,895	1,800	1,735	1,861	1,926	1,997	1.2	3.7	1.6
ELECTRICAL	4,048	3,982	3,848	4,416	4,552	4,345	4,930	5,172	3.3	4.9	3.6
ENGINEERING SCIENCE	38	32	24	29	37	47	66	75	9.6	13.6	10.2
INDUSTRIAL	1,480	5,033	5,421	5,597	5,120	5,941	5,407	6,001	24.1	11.0	22.1
MECHANICAL	1,400	1,236	1,053	1,399	1,283	1,365	1,426	1,640	.3	15.0	2.3
METALLURGICAL/MATERIALS	227	227	218	283	264	260	277	323	3.4	16.6	5.2
MINING	3	5	6	5	5	5	5	3	8.9	-40.0	.0
NUCLEAR	226	191	157	133	97	74	76	81	-16.6	6.6	-13.6
PETROLEUM	34	58	21	33	37	27	85	91	16.5	7.1	15.1
ENGINEERING, N.E.C.	197	573	834	912	1,045	1,108	1,082	1,217	32.8	12.5	29.7
PHYSICAL SCIENCES	1,363	1,263	1,298	1,224	1,220	1,139	1,201	1,221	-2.1	1.7	-1.6
ASTRONOMY	5	6	7	6	0	2	4	1	-3.7	-75.0	-20.5
CHEMISTRY	792	783	803	857	880	799	854	881	1.3	3.2	1.5
PHYSICS	562	474	488	361	328	338	343	339	-7.9	-1.2	-7.0
PHYSICAL SCIENCES, N.E.C.	4	0	0	0	12	0	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	325	304	287	374	325	305	289	286	-1.9	-1.0	-1.8
ATMOSPHERIC SCIENCES	90	15	10	3	1	1	28	11	-17.7	-60.7	-25.9
GEOSCIENCES	199	256	238	219	197	250	219	225	1.6	2.7	1.8
OCEANOGRAPHY	32	32	33	146	117	34	15	16	-11.9	6.7	-9.4
ENVIRONMENTAL SCIENCES, N.E.C.	4	1	6	6	10	20	27	34	37.5	25.9	35.8
MATHEMATICAL/COMPUTER SCIENCES	2,626	2,507	2,411	2,729	3,130	3,698	4,413	5,454	9.0	23.6	11.0
COMPUTER SCIENCE	970	1,008	995	1,383	1,884	2,387	2,894	3,781	20.0	30.6	21.5
MATHEMATICS AND APPLIED MATHEMATICS	1,581	1,404	1,316	1,261	1,165	1,233	1,442	1,604	-1.5	11.2	.2
STATISTICS	75	95	100	85	81	78	77	69	.4	-10.4	-1.2
LIFE SCIENCES	3,027	3,466	4,162	6,281	6,423	6,339	6,671	7,657	14.1	14.8	14.2
AGRICULTURAL SCIENCES	12	11	9	16	15	16	10	13	-3.0	30.0	1.2
BIOLOGICAL SCIENCES	1,651	1,968	2,168	2,424	2,271	2,179	2,034	2,154	3.5	5.9	3.9
ANATOMY	23	22	20	38	23	20	21	32	-1.5	52.4	4.8
BIOCHEMISTRY	63	45	44	41	85	78	94	137	6.9	45.7	11.7
BIOLOGY	1,000	1,289	1,333	1,439	1,270	1,202	1,105	1,120	1.7	1.4	1.6
BIOMETRY/EPIDEMIOLOGY	62	42	60	73	61	71	78	93	3.9	19.2	6.0
BIOPHYSICS	0	3	2	2	0	0	0	0	**	**	**
BOTANY	29	35	41	25	32	22	20	27	-6.0	35.0	-1.0
CELL BIOLOGY	10	11	15	9	5	3	6	5	-8.2	-16.7	-9.4
ECOLOGY	0	0	1	0	0	0	0	0	**	**	**
ENTOMOLOGY/PARASITOLOGY	3	0	0	3	4	4	3	2	.0	-33.3	-5.6
GENETICS	17	10	37	41	50	45	48	33	18.9	-31.3	9.9
MICROBIOLOGY	90	102	100	125	83	73	62	102	-6.0	64.5	1.8
NUTRITION	43	61	76	130	90	119	129	193	20.1	49.6	23.9
PATHOLOGY	73	130	240	286	276	262	238	218	21.8	-8.4	16.9
PHARMACOLOGY	42	38	40	43	56	52	47	40	1.9	-14.9	-.7
PHYSIOLOGY	61	41	41	30	113	100	77	55	4.0	-28.6	-1.5
ZOOLOGY	46	16	6	19	27	21	18	27	-14.5	50.0	-7.3
BIOSCIENCES, N.E.C.	89	123	112	120	96	91	88	70	-.2	-20.5	-3.4
HEALTH SCIENCES	1,364	1,487	1,985	3,841	4,137	4,144	4,627	5,490	22.6	18.7	22.0
ANESTHESIOLOGY	0	0	0	2	3	2	4	4	**	.0	**
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	4	1	0	2	0	0	0	0	-100.0	**	-100.0
DENTISTRY	24	85	78	121	110	51	55	96	14.8	74.5	21.9
ENDOCRINOLOGY	0	0	2	5	0	0	0	0	**	**	**
GASTROENTEROLOGY	0	4	0	0	0	0	0	1	**	**	**
HEMATOLOGY	0	0	1	11	8	6	7	0	**	-100.0	**
NEUROLOGY	5	0	7	7	1	0	5	0	.0	-100.0	-100.0
NURSING	143	180	469	1,558	1,589	1,573	1,618	2,209	49.8	36.5	47.9
OBSTETRICS/GYNECOLOGY	1	0	2	2	2	2	1	1	.0	.0	.0
OPHTHALMOLOGY	2	0	1	1	0	0	0	0	-100.0	**	-100.0
OTORHINOLARYNGOLOGY	3	0	0	1	0	0	0	0	-100.0	**	-100.0
PEDIATRICS	3	6	3	3	5	3	4	1	4.9	-75.0	-14.5
PHARMACEUTICAL SCIENCES	408	536	587	691	723	644	595	662	6.5	11.3	7.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	279	232	447	599	748	911	1,214	1,342	27.8	10.5	25.2
PSYCHIATRY	16	26	7	13	13	13	0	34	-100.0	**	11.4
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	13	3	2	1	1	5	2	6	-26.8	200.0	-10.5
SPEECH PATHOLOGY/AUDIOLOGY	241	345	248	324	401	310	340	306	5.9	-10.0	3.5
SURGERY	2	1	4	11	8	2	0	6	-100.0	**	17.0
VETERINARY SCIENCES	0	1	0	0	0	0	0	0	**	**	**
CLINICAL MEDICINE, N.E.C.	27	0	3	1	20	26	12	29	-12.6	141.7	1.0
HEALTH RELATED, N.E.C.	193	67	124	488	505	596	770	793	25.9	3.0	22.4
PSYCHOLOGY	3,242	3,580	3,622	3,586	3,933	3,872	4,120	4,000	4.1	-2.9	3.0
SOCIAL SCIENCES	6,039	8,209	8,523	8,372	8,650	9,701	10,776	10,259	10.1	-4.8	7.9
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	2	**	**	**
ANTHROPOLOGY	358	483	386	395	370	415	424	453	2.9	6.8	3.4
ECONOMICS (EXCEPT AGRICULTURAL)	1,156	1,172	1,369	1,343	1,118	1,324	1,388	1,582	3.1	14.0	4.6
GEOGRAPHY	54	63	34	38	39	58	43	31	-3.7	-27.9	-7.6
HISTORY AND PHILOSOPHY OF SCIENCE	28	21	23	15	19	14	13	12	-12.0	-7.7	-11.4
LINGUISTICS	130	170	179	209	145	368	330	324	16.8	-1.8	13.9
POLITICAL SCIENCE	2,103	3,655	4,088	3,745	4,407	5,180	5,863	5,301	18.6	-9.6	14.1
SOCIOLOGY	765	778	820	814	703	702	733	702	-.7	-4.2	-1.2
SOCIOLOGY/ANTHROPOLOGY	165	177	154	174	160	206	213	237	4.3	11.3	5.3
SOCIAL SCIENCES, N.E.C.	1,280	1,690	1,470	1,639	1,689	1,434	1,769	1,615	5.5	-8.7	3.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-46. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1974-81

DIVISION AND STATE	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1978	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL INSTITUTIONS	69,834	83,433	84,070	89,116	93,228	97,181	103,207	105,674	6.7	2.4	6.1
NEW ENGLAND	4,682	5,222	5,100	5,509	5,899	6,034	6,537	6,807	5.7	4.1	5.5
CONNECTICUT	351	541	575	374	435	506	446	486	4.1	9.0	4.8
MAINE	98	82	123	91	109	120	123	82	3.9	-33.3	-2.5
MASSACHUSETTS	3,616	3,937	3,807	4,424	4,713	4,766	5,251	5,514	6.4	5.0	6.2
NEW HAMPSHIRE	92	65	75	91	136	81	105	120	2.2	14.3	3.9
RHODE ISLAND	400	498	420	394	400	416	467	438	2.6	-6.2	1.3
VERMONT	125	99	100	135	106	145	145	167	2.5	15.2	4.2
MIDDLE ATLANTIC	19,696	22,940	21,738	23,277	23,476	24,769	26,414	28,541	5.0	8.1	5.4
NEW JERSEY	3,887	4,333	3,964	4,108	5,305	5,225	5,277	5,241	5.2	-.7	4.4
NEW YORK	11,416	13,828	12,557	14,033	13,146	14,301	15,164	16,772	4.8	10.6	5.6
PENNSYLVANIA	4,393	4,779	5,217	5,136	5,025	5,243	5,973	6,528	5.3	9.3	5.8
EAST NORTH CENTRAL	11,044	12,353	12,458	13,347	14,379	15,090	15,810	16,000	6.2	1.2	5.4
ILLINOIS	2,434	2,517	2,674	3,535	3,853	4,187	4,545	4,598	11.0	1.2	9.5
INDIANA	1,107	1,312	1,533	1,590	1,436	1,446	1,608	1,943	6.4	20.8	8.4
MICHIGAN	2,133	2,353	2,313	2,347	2,606	3,180	3,074	3,035	6.3	-1.3	5.2
OHIO	3,764	4,377	4,132	4,258	4,809	4,613	4,698	4,787	3.8	1.9	3.5
WISCONSIN	1,606	1,794	1,806	1,617	1,675	1,664	1,885	1,637	2.7	-13.2	.3
WEST NORTH CENTRAL	4,880	4,845	5,005	5,673	6,173	5,872	5,884	5,728	3.2	-2.7	2.3
IOWA	1,098	711	842	905	1,069	1,021	1,009	907	-1.4	-10.1	-2.7
KANSAS	707	886	877	1,082	1,346	1,284	1,029	926	6.5	-10.0	3.9
MINNESOTA	689	808	735	760	764	734	776	849	2.0	9.4	3.0
MISSOURI	1,666	1,741	1,815	1,830	1,849	1,800	2,004	1,937	3.1	-3.3	2.2
NEBRASKA	397	455	539	783	747	680	650	795	8.6	22.3	10.4
NORTH DAKOTA	122	111	108	229	225	187	220	155	10.3	-29.5	3.5
SOUTH DAKOTA	201	133	89	84	173	166	196	159	-.4	-18.9	-3.3
SOUTH ATLANTIC	10,166	12,135	13,944	15,074	16,424	17,036	18,641	19,113	10.6	2.5	9.4
DELAWARE	293	318	330	254	249	321	351	410	3.1	16.8	4.9
DISTRICT OF COLUMBIA	3,303	3,522	4,371	5,296	5,215	5,098	5,273	5,915	8.1	12.2	8.7
FLORIDA	1,169	2,052	2,243	2,255	2,976	3,444	4,170	4,286	23.6	2.8	20.4
GEORGIA	968	1,202	1,216	1,060	1,136	1,280	1,481	1,279	7.3	-13.6	4.1
MARYLAND	1,706	1,654	2,102	2,229	2,210	2,107	1,721	1,868	.1	8.5	1.3
NORTH CAROLINA	845	931	920	937	1,136	1,193	1,168	1,175	5.5	.6	4.8
SOUTH CAROLINA	402	706	791	896	1,010	981	810	888	12.4	9.6	12.0
VIRGINIA	1,229	1,374	1,497	1,589	1,663	1,765	2,288	2,147	10.9	-6.2	8.3
WEST VIRGINIA	251	376	474	558	829	847	1,379	1,145	32.8	-17.0	24.2
EAST SOUTH CENTRAL	2,478	2,824	3,356	3,539	3,775	3,772	4,031	3,650	8.4	-9.5	5.7
ALABAMA	543	693	945	1,102	1,070	1,062	958	934	9.9	-2.5	8.1
KENTUCKY	469	554	661	701	708	787	753	824	8.2	9.4	8.4
MISSISSIPPI	222	354	390	376	424	369	437	389	11.9	-11.0	8.3
TENNESSEE	1,244	1,223	1,360	1,360	1,573	1,554	1,883	1,503	7.2	-20.2	2.7
WEST SOUTH CENTRAL	6,250	7,249	7,283	8,226	8,570	8,232	8,810	8,753	5.9	-.6	4.9
ARKANSAS	173	162	195	263	312	291	300	300	9.6	.0	8.2
LOUISIANA	775	730	820	874	991	1,036	1,088	1,093	5.8	.5	5.0
OKLAHOMA	1,173	991	907	1,049	1,088	985	934	925	-3.7	-1.0	-3.3
TEXAS	4,129	5,366	5,361	6,040	6,179	5,920	6,488	6,435	7.8	-.8	6.5
MOUNTAIN	3,584	4,607	4,360	4,620	4,874	5,334	5,608	5,586	7.7	-.4	6.5
ARIZONA	1,003	1,419	1,252	1,319	1,335	1,575	1,484	1,774	6.7	19.5	8.5
COLORADO	1,095	1,514	1,335	1,405	1,410	1,773	1,874	1,648	9.4	-12.1	6.0
IDAHO	163	142	235	400	396	298	328	339	12.4	3.4	11.0
MONTANA	23	47	35	46	85	69	74	59	21.5	-20.3	14.4
NEVADA	93	98	138	123	109	116	85	123	-1.5	44.7	4.1
NEW MEXICO	603	704	667	546	620	564	637	692	.9	8.6	2.0
UTAH	526	593	601	701	841	845	892	886	9.2	-.7	7.7
WYOMING	78	90	97	80	78	94	234	65	20.1	-72.2	-2.6
PACIFIC	6,798	10,872	10,428	9,314	9,166	10,456	10,842	10,901	8.1	.5	7.0
ALASKA	49	42	38	38	28	36	28	88	-8.9	214.3	8.7
CALIFORNIA	5,609	9,374	8,732	7,700	7,260	8,469	8,736	8,848	7.7	1.3	6.7
HAWAII	107	153	143	170	168	161	281	274	17.5	-2.5	14.4
OREGON	310	576	597	454	556	548	450	522	6.4	16.0	7.7
WASHINGTON	723	727	918	952	1,154	1,242	1,347	1,169	10.9	-13.2	7.1
OUTLYING AREAS	256	386	398	537	492	586	630	595	16.2	-5.6	12.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-47. -- SCIENCE/ENGINEERING POSTDOCTORATES
IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	16,517	16,832	18,453	19,488	18,089	18,413	19,655	1.8	6.7	2.5
ENGINEERING	1,041	1,170	1,221	1,245	1,070	979	1,031	-1.0	5.3	-.1
AEROSPACE	30	43	36	46	32	20	14	-6.5	-30.0	-10.3
AGRICULTURAL	19	27	32	20	25	9	9	-11.7	.0	-10.1
BIOMEDICAL	28	40	55	73	32	28	34	.0	21.4	2.8
CHEMICAL	180	213	222	211	195	189	174	.8	-7.9	-.2
CIVIL	82	100	106	153	123	120	103	6.6	-14.2	3.3
ELECTRICAL	179	170	176	171	142	121	189	-6.3	56.2	.8
ENGINEERING SCIENCE	120	114	99	91	75	79	87	-6.7	10.1	-4.5
INDUSTRIAL	43	41	15	20	7	16	13	-15.2	-18.8	-15.7
MECHANICAL	122	120	181	161	143	137	123	2.0	-10.2	.1
METALLURGICAL/MATERIALS	172	210	213	209	209	171	193	-.1	12.9	1.7
MINING	10	13	18	14	5	4	16	-14.2	300.0	6.9
NUCLEAR	20	41	32	21	20	22	26	1.6	18.2	3.8
PETROLEUM	3	1	2	5	6	6	2	12.2	-66.7	-5.6
ENGINEERING, N.E.C.	33	37	34	50	56	57	48	9.5	-15.8	5.5
PHYSICAL SCIENCES	3,848	3,932	4,033	4,196	4,020	4,261	4,452	1.7	4.5	2.1
ASTRONOMY	154	115	140	167	129	141	132	-1.5	-6.4	-2.2
CHEMISTRY	2,379	2,522	2,610	2,658	2,604	2,710	2,861	2.2	5.6	2.7
PHYSICS	1,313	1,288	1,281	1,369	1,285	1,395	1,444	1.0	3.5	1.4
PHYSICAL SCIENCES, N.E.C.	2	7	2	2	2	15	15	39.9	.0	33.4
ENVIRONMENTAL SCIENCES	288	292	387	376	315	307	339	1.1	10.4	2.4
ATMOSPHERIC SCIENCES	48	37	48	49	34	43	46	-1.8	7.0	-.6
GEOSCIENCES	163	181	270	242	219	194	214	2.9	10.3	4.0
OCEANOGRAPHY	59	57	56	64	54	57	67	-.6	17.5	1.8
ENVIRONMENTAL SCIENCES, N.E.C.	18	17	13	21	8	13	12	-5.3	-7.7	-5.6
MATHEMATICAL/COMPUTER SCIENCES	148	167	190	145	200	205	147	5.6	-28.3	-.1
COMPUTER SCIENCE	67	55	79	75	75	62	48	-1.3	-22.6	-4.7
MATHEMATICS AND APPLIED MATHEMATICS	67	85	88	54	102	122	88	10.5	-27.9	4.0
STATISTICS	14	27	23	16	23	21	11	7.0	-47.6	-3.4
LIFE SCIENCES	10,430	10,614	11,880	12,769	11,630	11,749	12,881	2.0	9.6	3.1
AGRICULTURAL SCIENCES	266	258	330	293	215	239	290	-1.8	21.3	1.2
BIOLOGICAL SCIENCES	5,225	5,768	6,203	6,502	6,756	6,996	7,585	5.0	8.4	5.5
ANATOMY	215	194	175	218	254	249	258	2.5	3.6	2.6
BIOCHEMISTRY	1,353	1,338	1,403	1,380	1,488	1,519	1,699	1.9	11.8	3.3
BIOLOGY	710	776	831	847	957	967	851	5.3	-12.0	2.6
BIOMETRY/EPIDEMIOLOGY	24	23	37	65	68	72	62	20.1	-13.9	14.5
BIOPHYSICS	168	209	222	221	105	156	115	-1.2	-26.3	-5.3
BOTANY	157	175	180	188	163	220	240	5.8	9.1	6.3
CELL BIOLOGY	232	234	276	278	326	386	501	8.9	29.8	11.6
ECOLOGY	2	31	8	18	18	22	44	49.1	100.0	55.5
ENTOMOLOGY/PARASITOLOGY	131	139	123	119	104	119	127	-1.6	6.7	-.4
GENETICS	194	199	208	209	231	251	290	4.4	15.5	5.9
MICROBIOLOGY	606	700	799	911	865	876	986	6.3	12.6	7.2
NUTRITION	98	160	170	172	170	129	171	4.7	32.6	8.3
PATHOLOGY	263	343	359	420	433	476	470	10.4	-1.3	8.6
PHARMACOLOGY	412	481	557	617	633	624	749	7.2	20.0	8.9
PHYSIOLOGY	466	505	575	607	676	663	754	6.1	13.7	7.1
ZOOLOGY	151	193	201	157	180	168	178	1.8	6.0	2.4
BIOSCIENCES, N.E.C.	43	68	79	75	85	99	90	14.9	-9.1	11.1
HEALTH SCIENCES	4,939	4,588	5,347	5,974	4,659	4,514	5,006	-1.5	10.9	.2
ANESTHESIOLOGY	102	95	64	75	62	54	66	-10.1	22.2	-6.0
CANCER/ONCOLOGY	73	86	120	130	110	133	119	10.5	-10.5	7.2
CARDIOLOGY	520	484	497	502	298	334	343	-7.1	2.7	-5.8
DENTISTRY	36	31	98	360	138	102	161	19.0	57.8	23.9
ENDOCRINOLOGY	235	156	237	227	143	161	200	-6.1	24.2	-2.3
GASTROENTEROLOGY	195	184	168	198	103	123	114	-7.4	-7.3	-7.4
HEMATOLOGY	234	197	271	248	151	148	163	-7.4	10.1	-5.0
NEUROLOGY	239	212	242	313	333	355	367	6.8	3.4	6.3
NURSING	0	16	1	0	7	9	8	**	-11.1	**
OBSTETRICS/GYNECOLOGY	196	167	182	167	143	122	113	-7.6	-7.4	-7.6
OPHTHALMOLOGY	92	104	163	186	138	122	144	4.8	18.0	6.6
OTORHINOLARYNGOLOGY	63	42	41	30	35	46	41	-5.1	-10.9	-6.0
PEDIATRICS	569	472	532	514	511	427	559	-4.7	30.9	-.3
PHARMACEUTICAL SCIENCES	182	201	202	237	235	233	243	4.2	4.3	4.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	195	88	150	112	112	161	135	-3.1	-16.1	-5.1
PSYCHIATRY	271	279	281	329	292	296	292	1.5	-1.4	1.1
PULMONARY DISEASE	161	152	207	228	143	127	127	-3.9	.0	-3.3
RADIOLOGY	134	174	181	190	138	156	165	2.6	5.8	3.0
SPEECH PATHOLOGY/AUDIOLOGY	19	19	19	31	35	16	16	-2.8	.0	-2.4
SURGERY	306	313	387	426	264	298	297	-.4	-.3	-.4
VETERINARY SCIENCES	51	55	75	92	26	61	46	3.0	-24.6	-1.5
CLINICAL MEDICINE, N.E.C.	1,042	1,028	1,191	1,315	1,144	921	1,173	-2.0	27.4	1.7
HEALTH RELATED, N.E.C.	24	33	38	64	98	109	114	28.7	4.6	24.9
PSYCHOLOGY	342	369	398	399	454	474	473	5.6	-.2	4.7
SOCIAL SCIENCES	420	288	344	358	400	438	332	.7	-24.2	-3.3
AGRICULTURAL ECONOMICS	52	28	30	28	6	8	6	-26.8	-25.0	-26.5
ANTHROPOLOGY	26	33	45	53	41	40	30	7.4	-25.0	2.1
ECONOMICS (EXCEPT AGRICULTURAL)	68	44	57	65	98	144	29	13.3	-79.9	-11.5
GEOGRAPHY	22	7	12	9	5	15	23	-6.2	53.3	.6
HISTORY AND PHILOSOPHY OF SCIENCE	6	6	12	22	11	15	21	16.5	40.0	19.6
LINGUISTICS	43	19	32	29	30	54	47	3.9	-13.0	1.3
POLITICAL SCIENCE	39	18	28	27	30	32	47	-3.2	46.9	2.7
SOCIOLOGY	105	89	114	99	115	100	90	-.8	-10.0	-2.2
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	4	2	0	12.2	-100.0	-100.0
SOCIAL SCIENCES, N.E.C.	58	43	14	26	60	28	39	-11.4	39.3	-5.5

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-48. -- SCIENCE/ENGINEERING POSTDOCTORATES
IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	9,066	9,267	9,991	10,416	9,879	10,293	10,795	2.1	4.9	2.5
ENGINEERING	565	588	585	629	534	523	518	-1.3	-1.0	-1.2
AEROSPACE	8	24	14	22	11	12	8	7.0	-33.3	.0
AGRICULTURAL	11	20	26	19	25	8	6	-5.2	-25.0	-8.3
BIOMEDICAL	17	17	15	14	7	12	16	-5.6	33.3	-.9
CHEMICAL	127	137	135	142	132	136	110	1.1	-19.1	-2.0
CIVIL	53	57	48	78	49	56	33	.9	-41.1	-6.5
ELECTRICAL	95	95	84	92	57	51	114	-9.8	123.5	2.6
ENGINEERING SCIENCE	23	11	11	16	7	5	9	-22.5	80.0	-12.5
INDUSTRIAL	40	24	9	11	6	15	12	-15.1	-20.0	-15.8
MECHANICAL	70	57	90	79	73	71	56	.2	-21.1	-3.1
METALLURGICAL/MATERIALS	83	94	108	105	102	88	88	1.0	.0	.8
MINING	4	5	11	7	4	3	7	-4.7	133.3	8.3
NUCLEAR	14	23	17	12	16	20	21	6.1	5.0	6.0
PETROLEUM	2	0	0	4	5	4	0	12.2	-100.0	-100.0
ENGINEERING, N.E.C.	18	24	17	28	40	42	38	15.2	-9.5	11.3
PHYSICAL SCIENCES	2,312	2,358	2,387	2,452	2,422	2,650	2,760	2.3	4.2	2.6
ASTRONOMY	60	57	67	86	68	85	67	4.0	-21.2	1.6
CHEMISTRY	1,480	1,554	1,581	1,613	1,634	1,719	1,793	2.5	4.3	2.8
PHYSICS	770	740	737	751	718	846	900	1.6	6.4	2.3
PHYSICAL SCIENCES, N.E.C.	2	7	2	2	2	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	171	184	219	247	196	189	221	1.7	16.9	3.7
ATMOSPHERIC SCIENCES	38	35	46	49	26	36	41	-.9	13.9	1.1
GEOSCIENCES	76	97	122	128	119	97	121	4.2	24.7	6.9
OCEANOGRAPHY	50	44	45	58	46	47	49	-1.0	4.3	-.3
ENVIRONMENTAL SCIENCES, N.E.C.	7	8	6	12	5	9	10	4.3	11.1	5.2
MATHEMATICAL/COMPUTER SCIENCES	61	95	80	58	95	108	60	10.0	-44.4	-.2
COMPUTER SCIENCE	11	16	31	27	20	26	15	15.4	-42.3	4.5
MATHEMATICS AND APPLIED MATHEMATICS	39	55	31	17	56	66	40	9.2	-39.4	.4
STATISTICS	11	24	18	14	19	16	5	6.4	-68.8	-10.7
LIFE SCIENCES	5,589	5,721	6,378	6,680	6,198	6,418	6,818	2.3	6.2	2.9
AGRICULTURAL SCIENCES	255	243	311	284	204	226	278	-2.0	23.0	1.2
BIOLOGICAL SCIENCES	2,911	3,161	3,330	3,526	3,866	3,991	4,328	5.4	8.4	5.8
ANATOMY	124	117	90	118	134	135	140	1.4	3.7	1.7
BIOCHEMISTRY	747	753	783	762	875	864	1,005	2.5	16.3	4.3
BIOLOGY	270	288	323	361	400	420	407	7.6	-3.1	6.0
BIOMETRY/EPIDEMIOLOGY	11	10	17	31	26	27	29	16.1	7.4	14.9
BIOPHYSICS	74	81	83	76	58	62	47	-2.9	-24.2	-6.3
BOTANY	141	158	162	169	149	199	211	5.9	6.0	5.9
CELL BIOLOGY	104	97	119	119	131	167	199	8.2	19.2	9.7
ECOLOGY	2	7	6	16	18	22	39	49.1	77.3	52.9
ENTOMOLOGY/PARASITOLOGY	130	136	113	104	93	108	115	-3.0	6.5	-1.7
GENETICS	119	130	112	115	132	143	162	3.1	13.3	4.5
MICROBIOLOGY	391	401	461	541	561	593	664	7.2	12.0	7.9
NUTRITION	55	60	54	67	83	66	74	3.1	12.1	4.3
PATHOLOGY	107	138	166	174	218	240	209	14.4	-12.9	10.0
PHARMACOLOGY	225	279	285	334	368	352	391	7.7	11.1	8.2
PHYSIOLOGY	251	291	332	362	414	401	444	8.1	10.7	8.5
ZOOLOGY	136	171	180	138	159	146	162	1.2	11.0	2.5
BIOSCIENCES, N.E.C.	24	44	44	39	47	46	30	11.5	-34.8	3.2
HEALTH SCIENCES	2,423	2,317	2,737	2,870	2,128	2,201	2,212	-1.6	.5	-1.3
ANESTHESIOLOGY	66	54	29	38	30	24	28	-15.5	16.7	-11.5
CANCER/ONCOLOGY	56	65	88	90	85	108	101	11.6	-6.5	8.8
CARDIOLOGY	243	262	261	267	160	196	190	-3.5	-3.1	-3.5
DENTISTRY	24	23	75	160	100	94	49	25.6	-47.9	10.7
ENDOCRINOLOGY	126	84	140	115	73	92	102	-5.1	10.9	-3.0
GASTROENTEROLOGY	102	103	98	104	50	58	52	-9.0	-10.3	-9.2
HEMATOLOGY	112	106	117	107	60	78	76	-5.9	-2.6	-5.4
NEUROLOGY	86	83	77	119	143	134	147	7.7	9.7	8.0
NURSING	0	0	0	0	7	8	7	**	-12.5	**
OBSTETRICS/GYNECOLOGY	79	86	97	83	70	58	48	-5.0	-17.2	-6.9
OPHTHALMOLOGY	35	41	53	49	51	42	40	3.1	-4.8	1.9
OTORHINOLARYNGOLOGY	22	28	19	19	23	30	19	5.3	-36.7	-2.1
PEDIATRICS	278	234	245	228	171	154	153	-9.4	-.6	-8.2
PHARMACEUTICAL SCIENCES	174	194	192	220	227	220	230	4.0	4.5	4.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	62	67	123	76	47	95	63	7.4	-33.7	.2
PSYCHIATRY	161	135	143	122	79	99	107	-7.8	8.1	-5.7
PULMONARY DISEASE	109	85	112	119	58	72	77	-6.7	6.9	-4.8
RADIOLOGY	29	46	77	54	33	45	53	7.6	17.8	9.0
SPEECH PATHOLOGY/AUDIOLOGY	17	16	18	30	22	4	5	-21.4	25.0	-16.0
SURGERY	133	90	150	186	99	109	131	-3.3	20.2	-.2
VETERINARY SCIENCES	36	28	50	61	19	43	35	3.0	-18.6	-.4
CLINICAL MEDICINE, N.E.C.	471	489	552	577	452	385	430	-3.3	11.7	-1.3
HEALTH RELATED, N.E.C.	2	8	21	46	69	53	69	72.7	30.2	65.8
PSYCHOLOGY	129	153	154	149	203	234	261	10.4	11.5	10.6
SOCIAL SCIENCES	239	168	188	201	231	171	157	-5.4	-8.2	-5.8
AGRICULTURAL ECONOMICS	45	27	28	28	6	8	5	-25.0	-37.5	-26.9
ANTHROPOLOGY	13	23	28	40	28	27	20	13.0	-25.9	6.3
ECONOMICS (EXCEPT AGRICULTURAL)	32	23	22	18	40	16	12	-10.9	-25.0	-13.1
GEOGRAPHY	16	6	8	8	4	13	22	-3.4	69.2	4.7
HISTORY AND PHILOSOPHY OF SCIENCE	1	0	1	4	2	1	1	.0	.0	.0
LINGUISTICS	35	8	20	23	15	25	19	-5.5	-24.0	-8.4
POLITICAL SCIENCE	31	10	16	14	12	12	7	-14.6	-41.7	-19.2
SOCIOLOGY	43	39	53	44	71	51	55	2.9	7.8	3.6
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	2	2	0	**	-100.0	**
SOCIAL SCIENCES, N.E.C.	23	32	12	22	51	16	16	-5.9	.0	-5.1

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-49. -- SCIENCE/ENGINEERING POSTDOCTORATES
IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	7,451	7,565	8,462	9,072	8,210	8,120	8,860	1.4	9.1	2.5
ENGINEERING	476	582	636	616	536	456	513	-.7	12.5	1.1
AEROSPACE	22	19	22	24	21	8	6	-15.5	-25.0	-16.9
AGRICULTURAL	8	7	6	1	0	1	3	-29.3	200.0	-13.1
BIOMEDICAL	11	23	40	59	25	16	18	6.4	12.5	7.3
CHEMICAL	53	76	87	69	63	53	64	.0	20.8	2.7
CIVIL	29	43	58	75	74	64	70	14.1	9.4	13.4
ELECTRICAL	84	75	92	79	85	70	75	-3.0	7.1	-1.6
ENGINEERING SCIENCE	97	103	88	75	68	74	78	-4.4	5.4	-3.1
INDUSTRIAL	3	17	6	9	1	1	1	-16.7	.0	-14.5
MECHANICAL	52	63	91	82	70	66	67	4.1	1.5	3.7
METALLURGICAL/MATERIALS	89	116	105	104	107	83	105	-1.2	26.5	2.4
MINING	6	8	7	7	1	1	9	-25.8	800.0	6.0
NUCLEAR	6	18	15	9	4	2	5	-16.7	150.0	-2.6
PETROLEUM	1	1	2	1	1	2	2	12.2	.0	10.4
ENGINEERING, N.E.C.	15	13	17	22	16	15	10	.0	-33.3	-5.6
PHYSICAL SCIENCES	1,536	1,574	1,646	1,744	1,598	1,611	1,692	.8	5.0	1.4
ASTRONOMY	94	58	73	81	61	56	65	-8.3	16.1	-5.1
CHEMISTRY	899	968	1,029	1,045	970	991	1,068	1.6	7.8	2.5
PHYSICS	543	548	544	618	567	549	544	.2	-.9	*
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	15	15	**	.0	**
ENVIRONMENTAL SCIENCES	117	108	168	129	119	118	118	.1	.0	.1
ATMOSPHERIC SCIENCES	10	2	2	0	8	7	5	-5.8	-28.6	-9.4
GEOSCIENCES	87	84	148	114	100	97	93	1.8	-4.1	1.0
OCEANOGRAPHY	9	13	11	6	8	10	18	1.8	80.0	10.4
ENVIRONMENTAL SCIENCES, N.E.C.	11	9	7	9	3	4	2	-15.5	-50.0	-21.6
MATHEMATICAL/COMPUTER SCIENCES	87	72	110	87	105	97	87	1.8	-10.3	.0
COMPUTER SCIENCE	56	39	48	48	55	36	33	-7.1	-8.3	-7.3
MATHEMATICS AND APPLIED MATHEMATICS	28	30	57	37	46	56	48	12.2	-14.3	8.0
STATISTICS	3	3	5	2	4	5	6	8.9	20.0	10.4
LIFE SCIENCES	4,841	4,893	5,502	6,089	5,432	5,331	6,063	1.6	13.7	3.3
AGRICULTURAL SCIENCES	11	15	19	9	11	13	12	2.8	-7.7	1.3
BIOLOGICAL SCIENCES	2,314	2,607	2,873	2,976	2,890	3,005	3,257	4.5	8.4	5.0
ANATOMY	91	77	85	100	120	114	118	3.8	3.5	3.8
BIOCHEMISTRY	606	585	620	618	613	655	694	1.3	6.0	2.0
BIOLOGY	440	488	508	486	557	547	444	3.7	-18.8	.1
BIOMETRY/EPIDEMIOLOGY	13	13	20	34	42	45	33	23.0	-26.7	14.2
BIOPHYSICS	94	128	139	145	47	94	68	.0	-27.7	-4.5
BOTANY	16	17	18	19	14	21	29	4.6	38.1	8.9
CELL BIOLOGY	128	137	157	159	195	219	302	9.4	37.9	13.0
ECOLOGY	0	24	2	2	0	0	5	**	**	**
ENTOMOLOGY/PARASITOLOGY	1	3	10	15	11	11	12	49.1	9.1	42.6
GENETICS	75	69	96	94	99	108	128	6.3	18.5	7.9
MICROBIOLOGY	215	299	338	370	304	283	322	4.7	13.8	5.9
NUTRITION	43	100	116	105	87	63	97	6.6	54.0	12.3
PATHOLOGY	156	205	193	246	215	236	261	7.1	10.6	7.6
PHARMACOLOGY	187	202	272	283	265	272	358	6.4	31.6	9.7
PHYSIOLOGY	215	214	243	245	262	262	310	3.3	18.3	5.4
ZOOLOGY	15	22	21	19	21	22	16	6.6	-27.3	.9
BIOSCIENCES, N.E.C.	19	24	35	36	38	53	60	18.6	13.2	17.9
HEALTH SCIENCES	2,516	2,271	2,610	3,104	2,531	2,313	2,794	-1.4	20.8	1.5
ANESTHESIOLOGY	36	41	35	37	32	30	38	-3.0	26.7	.8
CANCER/ONCOLOGY	17	31	32	40	25	25	18	6.6	-28.0	.8
CARDIOLOGY	277	222	236	235	138	138	153	-11.0	10.9	-8.1
DENTISTRY	12	8	23	200	38	8	112	-6.5	1300.0	37.6
ENDOCRINOLOGY	109	72	97	112	70	69	98	-7.3	42.0	-1.5
GASTROENTEROLOGY	93	81	70	94	53	65	62	-5.8	-4.6	-5.6
HEMATOLOGY	122	91	154	141	91	70	87	-8.8	24.3	-4.7
NEUROLOGY	153	129	165	194	190	221	220	6.3	-.5	5.3
NURSING	0	16	1	0	0	1	1	**	.0	**
OBSTETRICS/GYNECOLOGY	117	81	85	84	73	64	65	-9.6	1.6	-8.1
OPHTHALMOLOGY	57	63	110	137	87	80	104	5.8	30.0	9.0
OTORHINOLARYNGOLOGY	41	14	22	11	12	16	22	-14.5	37.5	-8.5
PEDIATRICS	291	238	287	286	340	273	406	-1.1	48.7	4.9
PHARMACEUTICAL SCIENCES	8	7	10	17	8	13	13	8.4	.0	7.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	133	21	27	36	65	66	72	-11.0	9.1	-8.4
PSYCHIATRY	110	144	138	207	213	197	185	10.2	-6.1	7.7
PULMONARY DISEASE	52	67	95	109	85	55	50	.9	-9.1	-.6
RADIOLOGY	105	128	104	136	105	111	112	.9	.9	.9
SPEECH PATHOLOGY/AUDIOLOGY	2	3	1	1	13	12	11	34.8	-8.3	27.6
SURGERY	173	223	237	240	165	189	166	1.5	-12.2	-.6
VETERINARY SCIENCES	15	27	25	31	7	18	11	3.1	-38.9	-4.3
CLINICAL MEDICINE, N.E.C.	571	539	639	738	692	536	743	-1.0	38.6	3.8
HEALTH RELATED, N.E.C.	22	25	17	18	29	56	45	16.8	-19.6	10.8
PSYCHOLOGY	213	216	244	250	251	240	212	2.0	-11.7	-.1
SOCIAL SCIENCES	181	120	156	157	169	267	175	6.7	-34.5	-.5
AGRICULTURAL ECONOMICS	7	1	2	0	0	0	1	-100.0	**	-24.3
ANTHROPOLOGY	13	10	17	13	13	13	10	.0	-23.1	-3.7
ECONOMICS (EXCEPT AGRICULTURAL)	36	21	35	47	58	128	17	23.5	-86.7	-10.2
GEOGRAPHY	6	1	4	1	1	2	1	-16.7	-50.0	-22.6
HISTORY AND PHILOSOPHY OF SCIENCE	5	6	11	18	9	14	20	18.7	42.9	21.9
LINGUISTICS	8	11	12	6	15	29	28	23.9	-3.4	19.6
POLITICAL SCIENCE	8	8	12	13	18	20	40	16.5	100.0	25.8
SOCIOLOGY	62	50	61	55	44	49	35	-3.8	-28.6	-7.8
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	2	0	0	-100.0	**	-100.0
SOCIAL SCIENCES, N.E.C.	35	11	2	4	9	12	23	-16.3	91.7	-5.8

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-50. -- SCIENCE/ENGINEERING POSTDOCTORATES SUPPORTED BY FEDERAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	11,683	11,914	13,056	13,328	13,461	13,653	14,591	2.6	6.9	3.2
ENGINEERING	720	815	877	932	772	689	747	-.7	8.4	.5
AEROSPACE	17	24	31	39	27	19	11	1.9	-42.1	-6.0
AGRICULTURAL	5	18	15	9	11	4	3	-3.7	-25.0	-7.0
BIOMEDICAL	23	28	38	47	30	24	29	.7	20.8	3.4
CHEMICAL	110	119	151	159	130	122	109	1.7	-10.7	-.1
CIVIL	53	56	78	102	80	91	79	9.4	-13.2	5.9
ELECTRICAL	125	128	131	140	100	79	148	-7.4	87.3	2.4
ENGINEERING SCIENCE	115	106	87	74	66	61	59	-10.0	-3.3	-9.1
INDUSTRIAL	14	24	9	8	4	12	10	-2.5	-16.7	-4.7
MECHANICAL	87	89	120	120	112	86	89	-.2	3.5	.3
METALLURGICAL/MATERIALS	135	159	159	171	149	128	149	-.9	16.4	1.4
MINING	10	11	17	13	5	4	15	-14.2	275.0	6.0
NUCLEAR	9	27	17	10	6	14	17	7.6	21.4	9.5
PETROLEUM	1	0	2	4	6	2	2	12.2	.0	10.4
ENGINEERING, N.E.C.	16	26	22	36	46	43	27	17.9	-37.2	7.8
PHYSICAL SCIENCES	3,051	3,114	3,266	3,417	3,317	3,596	3,796	2.8	5.6	3.2
ASTRONOMY	121	86	106	126	100	123	119	.3	-3.3	-.2
CHEMISTRY	1,789	1,889	2,035	2,111	2,147	2,255	2,463	3.9	9.2	4.7
PHYSICS	1,139	1,138	1,124	1,179	1,070	1,207	1,214	1.0	.6	.9
PHYSICAL SCIENCES, N.E.C.	2	1	1	1	0	11	0	32.9	-100.0	-100.0
ENVIRONMENTAL SCIENCES	233	222	296	307	253	252	289	1.3	14.7	3.1
ATMOSPHERIC SCIENCES	43	34	46	46	32	42	45	-.4	7.1	.7
GEOSCIENCES	124	136	207	204	175	156	182	3.9	16.7	5.6
OCEANOGRAPHY	54	41	38	47	41	44	50	-3.4	13.6	-1.1
ENVIRONMENTAL SCIENCES, N.E.C.	12	11	5	10	5	10	12	-3.0	20.0	.0
MATHEMATICAL/COMPUTER SCIENCES	94	70	89	91	102	90	84	-.7	-6.7	-1.6
COMPUTER SCIENCE	60	41	54	65	60	51	28	-2.7	-45.1	-10.3
MATHEMATICS AND APPLIED MATHEMATICS	25	17	29	21	31	34	49	5.3	44.1	10.1
STATISTICS	9	12	6	5	11	5	7	-9.3	40.0	-3.5
LIFE SCIENCES	7,191	7,333	8,113	8,186	8,504	8,462	9,122	2.7	7.8	3.5
AGRICULTURAL SCIENCES	153	119	190	170	128	152	198	-.1	30.3	3.8
BIOLOGICAL SCIENCES	3,896	4,384	4,817	4,903	5,385	5,477	5,850	5.8	6.8	6.0
ANATOMY	146	147	135	157	200	190	199	4.5	4.7	4.5
BIOCHEMISTRY	1,053	1,089	1,139	1,131	1,197	1,218	1,329	2.5	9.1	3.4
BIOLOGY	502	531	665	620	750	770	711	7.4	-7.7	5.1
BIOMETRY/EPIDEMIOLOGY	14	18	29	42	54	58	58	26.7	.0	22.5
BIOPHYSICS	142	180	197	200	87	130	91	-1.5	-30.0	-6.2
BOTANY	97	80	94	108	104	159	182	8.6	14.5	9.4
CELL BIOLOGY	187	196	232	213	245	295	394	7.9	33.6	11.2
ECOLOGY	1	27	7	14	17	19	33	63.4	73.7	64.8
ENTOMOLOGY/PARASITOLOGY	89	75	85	82	78	88	101	-.2	14.8	1.8
GENETICS	153	154	161	163	205	187	193	3.4	3.2	3.4
MICROBIOLOGY	447	514	593	657	694	692	755	7.6	9.1	7.8
NUTRITION	69	101	102	118	130	86	119	3.7	38.4	8.1
PATHOLOGY	184	257	273	304	352	352	309	11.4	-12.2	7.7
PHARMACOLOGY	318	403	449	479	520	513	576	8.3	12.3	8.9
PHYSIOLOGY	356	400	473	473	554	523	600	6.6	14.7	7.7
ZOOLOGY	123	167	150	107	145	123	142	.0	15.4	2.1
BIOSCIENCES, N.E.C.	15	45	33	35	53	74	58	30.5	-21.6	21.3
HEALTH SCIENCES	3,142	2,830	3,106	3,113	2,991	2,833	3,074	-1.7	8.5	-.3
ANESTHESIOLOGY	46	37	43	33	29	29	21	-7.4	-27.6	-10.6
CANCER/ONCOLOGY	64	70	95	76	97	109	90	9.3	-17.4	5.0
CARDIOLOGY	330	289	253	236	167	194	177	-8.5	-8.8	-8.5
DENTISTRY	9	11	42	61	47	51	68	33.5	33.3	33.5
ENDOCRINOLOGY	146	100	146	129	95	106	153	-5.2	44.3	.7
GASTROENTEROLOGY	136	101	86	95	41	55	86	-14.0	56.4	-6.3
HEMATOLOGY	154	140	175	161	111	103	121	-6.5	17.5	-3.4
NEUROLOGY	174	166	172	204	241	275	246	7.9	-10.5	5.1
NURSING	0	16	1	0	6	9	8	**	-11.1	**
OBSTETRICS/GYNECOLOGY	94	78	77	75	55	51	45	-9.7	-11.8	-10.0
OPHTHALMOLOGY	50	64	108	132	93	72	95	6.3	31.9	9.6
OTORHINOLARYNGOLOGY	47	31	17	17	21	24	23	-10.6	-4.2	-9.7
PEDIATRICS	358	289	312	242	310	224	305	-7.5	36.2	-2.3
PHARMACEUTICAL SCIENCES	156	175	169	174	194	201	189	4.3	-6.0	2.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	134	71	94	74	73	121	89	-1.7	-26.4	-5.7
PSYCHIATRY	212	196	167	213	242	202	210	-.8	4.0	-.1
PULMONARY DISEASE	92	76	103	98	82	61	79	-6.6	29.5	-2.2
RADIOLOGY	85	125	155	114	98	97	129	2.2	33.0	6.1
SPEECH PATHOLOGY/AUDIOLOGY	19	15	17	17	31	14	15	-5.0	7.1	-3.3
SURGERY	182	173	203	205	163	179	164	-.3	-8.4	-1.5
VETERINARY SCIENCES	36	37	40	53	15	43	22	3.0	-48.8	-6.8
CLINICAL MEDICINE, N.E.C.	608	557	608	651	709	538	657	-2.0	22.1	1.1
HEALTH RELATED, N.E.C.	10	13	23	53	71	75	82	39.9	9.3	35.1
PSYCHOLOGY	188	219	255	240	282	302	373	8.2	23.5	10.3
SOCIAL SCIENCES	206	141	160	155	231	262	180	4.1	-31.3	-1.9
AGRICULTURAL ECONOMICS	36	21	23	7	3	6	3	-25.8	-50.0	-29.9
ANTHROPOLOGY	17	19	27	24	28	31	20	10.5	-35.5	2.3
ECONOMICS (EXCEPT AGRICULTURAL)	38	15	14	12	35	83	19	13.9	-77.1	-9.4
GEOGRAPHY	7	2	1	4	2	6	2	-2.5	-66.7	-16.4
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	1	6	2	5	7	30.8	40.0	32.0
LINGUISTICS	7	6	8	7	6	19	7	18.1	-63.2	.0
POLITICAL SCIENCE	10	3	11	14	16	10	40	.0	300.0	21.9
SOCIOLOGY	52	53	66	71	94	83	73	8.1	-12.0	5.0
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	4	2	0	**	-100.0	**
SOCIAL SCIENCES, N.E.C.	38	21	9	10	41	17	9	-12.5	-47.1	-18.6

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-51. -- SCIENCE/ENGINEERING POSTDOCTORATES SUPPORTED BY NON-FEDERAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-77 AND 1979-81 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL FIELDS	4,834	4,918	5,397	6,160	4,628	4,760	5,064	-.3	6.4	.7
ENGINEERING	321	355	344	313	298	290	284	-1.7	-2.1	-1.7
AEROSPACE	13	19	5	7	5	1	3	-34.8	200.0	-18.9
AGRICULTURAL	4	9	17	11	14	5	6	-15.8	20.0	-11.4
BIOMEDICAL	5	12	17	26	2	4	5	-3.7	25.0	.0
CHEMICAL	70	94	71	52	65	67	65	-.7	-3.0	-1.1
CIVIL	29	44	28	51	43	29	24	.0	-17.2	-2.7
ELECTRICAL	54	42	45	31	42	42	41	-4.1	-2.4	-3.9
ENGINEERING SCIENCE	5	8	12	17	9	18	28	23.8	55.6	27.9
INDUSTRIAL	29	17	6	12	3	4	3	-28.1	-25.0	-27.7
MECHANICAL	35	31	61	41	31	51	34	-.6.5	-33.3	-.4
METALLURGICAL/MATERIALS	37	51	54	38	60	43	44	2.5	2.3	2.5
MINING	0	2	1	1	0	0	1	**	**	**
NUCLEAR	11	14	15	11	14	8	9	-5.2	12.5	-2.8
PETROLEUM	2	1	0	1	0	4	0	12.2	-100.0	-100.0
ENGINEERING, N.E.C.	17	11	12	14	10	14	21	-3.2	50.0	3.1
PHYSICAL SCIENCES	797	818	767	779	703	665	656	-3.0	-1.4	-2.7
ASTRONOMY	33	29	34	41	29	18	13	-9.6	-27.8	-12.5
CHEMISTRY	590	633	575	547	457	455	398	-4.2	-12.5	-5.5
PHYSICS	174	150	157	190	215	188	230	1.3	22.3	4.1
PHYSICAL SCIENCES, N.E.C.	0	6	1	1	2	4	15	**	275.0	**
ENVIRONMENTAL SCIENCES	55	70	91	69	62	55	50	.0	-9.1	-1.4
ATMOSPHERIC SCIENCES	5	3	2	3	2	1	1	-23.5	.0	-20.5
GEOSCIENCES	39	45	63	38	44	38	32	-.4	-15.8	-2.8
OCEANOGRAPHY	5	16	18	17	13	13	17	17.3	30.8	19.1
ENVIRONMENTAL SCIENCES, N.E.C.	6	6	8	11	3	3	0	-10.9	-100.0	-100.0
MATHEMATICAL/COMPUTER SCIENCES	54	97	101	56	98	115	63	13.4	-45.2	2.2
COMPUTER SCIENCE	7	14	25	10	15	11	20	7.8	81.8	16.2
MATHEMATICS AND APPLIED MATHEMATICS	42	68	59	33	71	88	39	13.1	-55.7	-1.1
STATISTICS	5	15	17	11	12	16	4	21.4	-75.0	-3.1
LIFE SCIENCES	3,239	3,281	3,767	4,583	3,126	3,287	3,759	.2	14.4	2.1
AGRICULTURAL SCIENCES	113	139	140	123	87	87	92	-4.3	5.7	-2.9
BIOLOGICAL SCIENCES	1,329	1,384	1,386	1,599	1,371	1,519	1,735	2.3	14.2	3.9
ANATOMY	69	47	40	61	54	59	59	-2.6	.0	-2.2
BIOCHEMISTRY	300	249	264	249	291	301	370	.1	22.9	3.0
BIOLOGY	208	245	166	227	207	197	140	-.9	-28.9	-5.5
BIOMETRY/EPIDEMIOLOGY	10	5	8	23	14	14	4	5.8	-71.4	-12.3
BIOPHYSICS	26	29	25	21	18	26	24	.0	-7.7	-1.1
BOTANY	60	95	86	80	59	61	58	.3	-4.9	-.5
CELL BIOLOGY	45	38	44	65	81	91	107	12.5	17.6	13.2
ECOLOGY	1	4	1	4	1	3	11	20.1	266.7	40.9
ENTOMOLOGY/PARASITOLOGY	42	64	38	37	26	31	26	-4.9	-16.1	-6.6
GENETICS	41	45	47	46	26	64	97	7.7	51.6	13.1
MICROBIOLOGY	159	186	206	254	171	184	231	2.5	25.5	5.5
NUTRITION	29	59	68	54	40	43	52	6.8	20.9	8.7
PATHOLOGY	79	86	86	116	81	124	161	7.8	29.8	10.7
PHARMACOLOGY	94	78	108	138	113	111	173	2.8	55.9	9.1
PHYSIOLOGY	110	105	102	134	122	140	154	4.1	10.0	4.9
ZOOLOGY	28	26	51	50	35	45	36	8.2	-20.0	3.7
BIOSCIENCES, N.E.C.	28	23	46	40	32	25	32	-1.9	28.0	1.9
HEALTH SCIENCES	1,797	1,758	2,241	2,861	1,668	1,681	1,932	-1.1	14.9	1.0
ANESTHESIOLOGY	56	58	21	42	33	25	45	-12.6	80.0	-3.1
CANCER/ONCOLOGY	9	16	25	54	13	24	29	17.8	20.8	18.2
CARDIOLOGY	190	195	244	266	131	140	166	-5.0	18.6	-1.9
DENTISTRY	27	20	56	299	91	51	93	11.2	82.4	19.3
ENDOCRINOLOGY	89	56	91	98	48	55	47	-7.7	-14.5	-8.7
GASTROENTEROLOGY	59	83	82	103	62	68	28	2.4	-58.8	-10.1
HEMATOLOGY	80	57	96	87	40	45	42	-9.1	-6.7	-8.8
NEUROLOGY	65	46	70	109	92	80	121	3.5	51.2	9.3
NURSING	0	0	0	0	1	0	0	**	**	**
OBSTETRICS/GYNECOLOGY	102	89	105	92	88	71	68	-5.9	-4.2	-5.6
OPHTHALMOLOGY	42	40	55	54	45	50	49	2.9	-2.0	2.2
OTORHINOLARYNGOLOGY	16	11	24	13	14	22	18	5.5	-18.2	1.7
PEDIATRICS	211	183	220	272	201	203	254	-.6	25.1	2.7
PHARMACEUTICAL SCIENCES	26	26	33	63	41	32	54	3.5	68.8	11.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	61	17	56	38	39	40	46	-6.8	15.0	-4.0
PSYCHIATRY	59	83	114	116	50	94	82	8.1	-12.8	4.8
PULMONARY DISEASE	69	76	104	130	61	66	68	-.7	-27.3	-5.1
RADIOLOGY	49	49	26	76	40	59	36	3.1	-39.0	-4.3
SPEECH PATHOLOGY/AUDIOLOGY	0	4	2	14	4	2	1	**	-50.0	**
SURGERY	124	140	184	221	101	119	133	-.7	11.8	1.0
VETERINARY SCIENCES	15	18	35	39	11	18	24	3.1	33.3	6.9
CLINICAL MEDICINE, N.E.C.	434	471	583	664	435	383	516	-2.1	34.7	2.5
HEALTH RELATED, N.E.C.	14	20	15	11	27	34	32	15.9	-5.9	12.5
PSYCHOLOGY	154	150	143	159	172	172	100	1.9	-41.9	-6.0
SOCIAL SCIENCES	214	147	184	203	169	176	152	-3.2	-13.6	-4.8
AGRICULTURAL ECONOMICS	16	7	7	21	3	2	3	-29.3	50.0	-21.3
ANTHROPOLOGY	9	14	18	29	13	9	10	.0	11.1	1.5
ECONOMICS (EXCEPT AGRICULTURAL)	30	29	43	53	63	61	10	12.6	-83.6	-14.5
GEOGRAPHY	15	5	11	5	3	9	21	-8.2	133.3	4.9
HISTORY AND PHILOSOPHY OF SCIENCE	5	5	11	16	9	10	14	12.2	40.0	15.8
LINGUISTICS	36	13	24	22	24	35	40	-.5	14.3	1.5
POLITICAL SCIENCE	29	15	17	13	14	22	7	-4.5	-68.2	-18.4
SOCIOLOGY	53	36	48	28	21	17	17	-17.3	.0	-15.0
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	0	0	0	-100.0	**	-100.0
SOCIAL SCIENCES, N.E.C.	20	22	5	16	19	11	30	-9.5	172.7	6.0

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-52. -- SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1974-77 AND 1979-81 1/

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1974	1975	1976	1977	1979	1980	1981	1974-80	1980-81	1974-81
TOTAL, ALL INSTITUTIONS	16,517	16,832	18,453	19,488	18,089	18,413	19,655	1.8	6.7	2.5
NEW ENGLAND	2,086	2,178	2,559	3,042	2,583	2,615	2,950	3.8	12.8	5.1
CONNECTICUT	495	537	600	744	543	701	699	6.0	-.3	5.1
MAINE	8	7	17	20	9	8	1	.0	-87.5	-25.7
MASSACHUSETTS	1,435	1,462	1,742	2,076	1,857	1,695	2,048	2.8	20.8	5.2
NEW HAMPSHIRE	43	44	52	49	34	46	38	1.1	-17.4	-1.8
RHODE ISLAND	76	75	90	98	85	108	95	6.0	-12.0	3.2
VERMONT	29	53	58	55	55	57	69	11.9	21.1	13.2
MIDDLE ATLANTIC	3,228	3,160	3,508	3,601	3,406	3,401	3,473	.9	2.1	1.1
NEW JERSEY	230	281	346	378	312	305	307	4.8	.7	4.2
NEW YORK	2,195	2,041	2,194	2,306	2,274	2,325	2,319	1.0	-.3	.8
PENNSYLVANIA	803	838	968	917	820	771	847	-.7	9.9	.8
EAST NORTH CENTRAL	2,294	2,451	2,571	2,614	2,461	2,531	2,682	1.7	6.0	2.3
ILLINOIS	661	791	808	870	794	768	887	2.5	15.5	4.3
INDIANA	339	327	357	332	330	340	377	*	10.9	1.5
MICHIGAN	419	420	413	407	370	449	431	1.2	-4.0	.4
OHIO	432	459	573	554	493	498	497	2.4	-.2	2.0
WISCONSIN	443	454	420	451	474	476	490	1.2	2.9	1.5
WEST NORTH CENTRAL	1,178	1,161	1,221	1,267	1,241	1,294	1,378	1.6	6.5	2.3
IOWA	207	218	233	248	261	270	248	4.5	-8.1	2.6
KANSAS	116	166	143	158	159	157	163	5.2	3.8	5.0
MINNESOTA	328	326	323	316	309	324	359	-.2	10.8	1.3
MISSOURI	424	387	450	441	424	445	495	.8	11.2	2.2
NEBRASKA	70	34	46	77	70	70	85	.0	21.4	2.8
NORTH DAKOTA	14	15	14	23	17	25	25	10.1	.0	8.6
SOUTH DAKOTA	19	15	12	4	1	3	3	-26.5	.0	-23.2
SOUTH ATLANTIC	1,962	2,085	2,209	2,230	2,045	2,175	2,259	1.7	3.9	2.0
DELAWARE	28	27	51	51	48	37	0	4.8	-100.0	-100.0
DISTRICT OF COLUMBIA	142	124	131	196	107	126	145	-2.0	15.1	.3
FLORIDA	277	320	319	327	247	236	283	-2.6	19.9	.3
GEORGIA	247	259	282	198	183	170	227	-6.0	33.5	-1.2
MARYLAND	494	485	461	536	502	546	605	1.7	10.8	2.9
NORTH CAROLINA	512	557	567	528	576	615	560	3.1	-8.9	1.3
SOUTH CAROLINA	65	78	85	64	95	92	82	12.7	-10.9	9.0
VIRGINIA	207	217	295	303	253	319	323	7.5	1.3	6.6
WEST VIRGINIA	10	18	18	27	34	34	34	22.6	.0	19.1
EAST SOUTH CENTRAL	472	522	683	705	682	592	623	3.8	5.2	4.0
ALABAMA	105	133	207	251	222	205	168	11.8	-18.0	6.9
KENTUCKY	134	119	153	96	90	65	99	-11.4	52.3	-4.2
MISSISSIPPI	39	40	54	63	57	41	36	.8	-12.2	-1.1
TENNESSEE	194	230	269	295	313	281	320	6.4	13.9	7.4
WEST SOUTH CENTRAL	1,237	1,193	1,081	1,303	1,308	1,207	1,379	-.4	14.3	1.6
ARKANSAS	45	59	29	9	15	10	24	-22.2	140.0	-8.6
LOUISIANA	210	126	160	215	142	155	114	-4.9	-26.5	-8.4
OKLAHOMA	93	108	96	96	76	94	86	.2	-8.5	-1.1
TEXAS	889	900	796	983	1,075	948	1,155	1.1	21.8	3.8
MOUNTAIN	685	776	782	952	731	822	970	3.1	18.0	5.1
ARIZONA	142	167	162	204	202	213	275	7.0	29.1	9.9
COLORADO	273	285	297	394	285	349	382	4.2	9.5	4.9
IDAHO	16	34	42	47	12	26	13	8.4	-50.0	-2.9
MONTANA	30	28	29	47	38	24	22	-3.7	-8.3	-4.3
NEVADA	9	6	5	6	14	19	17	13.3	-10.5	9.5
NEW MEXICO	35	40	37	47	46	52	52	6.8	.0	5.8
UTAH	166	203	196	196	125	139	198	-2.9	42.4	2.6
WYOMING	14	13	14	11	9	0	11	-100.0	**	-3.4
PACIFIC	3,358	3,265	3,814	3,732	3,618	3,760	3,928	1.9	4.5	2.3
ALASKA	6	1	8	8	3	4	3	-6.5	-25.0	-9.4
CALIFORNIA	2,664	2,727	3,016	3,069	2,990	3,166	3,297	2.9	4.1	3.1
HAWAII	41	30	63	36	76	52	33	4.0	-36.5	-3.1
OREGON	192	185	185	178	148	124	154	-7.0	24.2	-3.1
WASHINGTON	455	302	542	441	401	414	441	-1.6	6.5	-.4
OUTLYING AREAS	17	41	25	42	14	16	13	-1.0	-18.8	-3.8

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-53. -- MALE SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	14,752	14,870	15,563	0.8	4.7
ENGINEERING	1,020	913	952	-10.5	4.3
AEROSPACE	32	20	12	-37.5	-40.0
AGRICULTURAL	24	8	9	-66.7	12.5
BIOMEDICAL	26	23	28	-11.5	21.7
CHEMICAL	182	168	162	-7.7	-3.6
CIVIL	118	109	95	-7.6	-12.8
ELECTRICAL	139	116	179	-16.5	54.3
ENGINEERING SCIENCE	71	74	84	4.2	13.5
INDUSTRIAL	6	16	10	166.7	-37.5
MECHANICAL	141	134	115	-5.0	-14.2
METALLURGICAL/MATERIALS	198	159	178	-19.7	11.9
MINING	5	4	11	-20.0	175.0
NUCLEAR	18	21	22	16.7	4.8
PETROLEUM	6	6	2	.0	-66.7
ENGINEERING, N.E.C.	54	55	45	1.9	-18.2
PHYSICAL SCIENCES	3,636	3,833	3,978	5.4	3.8
ASTRONOMY	119	128	122	7.6	-4.7
CHEMISTRY	2,301	2,380	2,496	3.4	4.9
PHYSICS	1,215	1,310	1,345	7.8	2.7
PHYSICAL SCIENCES, N.E.C.	1	15	15	1400.0	.0
ENVIRONMENTAL SCIENCES	285	274	306	-3.9	11.7
ATMOSPHERIC SCIENCES	33	41	42	24.2	2.4
GEOSCIENCES	193	172	194	-10.9	12.8
OCEANOGRAPHY	51	48	58	-5.9	20.8
ENVIRONMENTAL SCIENCES, N.E.C.	8	13	12	62.5	-7.7
MATHEMATICAL/COMPUTER SCIENCES	178	189	128	6.2	-32.3
COMPUTER SCIENCE	69	59	39	-14.5	-33.9
MATHEMATICS AND APPLIED MATHEMATICS	89	110	79	23.6	-28.2
STATISTICS	20	20	10	.0	-50.0
LIFE SCIENCES	9,075	9,044	9,683	-.3	7.1
AGRICULTURAL SCIENCES	189	209	254	10.6	21.5
BIOLOGICAL SCIENCES	5,074	5,214	5,580	2.8	7.0
ANATOMY	184	181	182	-2.7	.6
BIOCHEMISTRY	1,154	1,152	1,284	-.2	11.5
BIOLOGY	698	687	580	-1.6	-15.6
BIOMETRY/EPIDEMIOLOGY	40	47	40	17.5	-14.9
BIOPHYSICS	82	117	99	42.7	-15.4
BOTANY	124	161	178	29.8	10.6
CELL BIOLOGY	241	279	357	15.8	28.0
ECOLOGY	17	19	33	11.8	73.7
ENTOMOLOGY/PARASITOLOGY	81	100	107	23.5	7.0
GENETICS	159	164	185	3.1	12.8
MICROBIOLOGY	626	641	707	2.4	10.3
NUTRITION	121	98	121	-19.0	23.5
PATHOLOGY	329	363	368	10.3	1.4
PHARMACOLOGY	493	495	592	.4	19.6
PHYSIOLOGY	542	525	572	-3.1	9.0
ZOOLOGY	123	119	110	-3.3	-7.6
BIOSCIENCES, N.E.C.	58	66	65	13.8	-1.5
HEALTH SCIENCES	3,812	3,621	3,849	-5.0	6.3
ANESTHESIOLOGY	59	49	50	-16.9	2.0
CANCER/ONCOLOGY	96	112	88	16.7	-21.4
CARDIOLOGY	270	292	297	8.1	1.7
DENTISTRY	113	82	136	-27.4	65.9
ENDOCRINOLOGY	122	129	162	5.7	25.6
GASTROENTEROLOGY	84	106	93	26.2	-12.3
HEMATOLOGY	129	125	131	-3.1	4.8
NEUROLOGY	277	281	298	1.4	6.0
NURSING	3	2	6	-33.3	200.0
OBSTETRICS/GYNECOLOGY	118	94	75	-20.3	-20.2
OPHTHALMOLOGY	108	96	111	-11.1	15.6
OTORHINOLARYNGOLOGY	29	40	35	37.9	-12.5
PEDIATRICS	375	310	364	-17.3	17.4
PHARMACEUTICAL SCIENCES	202	209	207	3.5	-1.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	89	101	88	13.5	-12.9
PSYCHIATRY	197	199	180	1.0	-9.5
PULMONARY DISEASE	132	114	118	-13.6	3.5
RADIOLOGY	116	134	123	15.5	-8.2
SPEECH PATHOLOGY/AUDIOLOGY	20	11	9	-45.0	-18.2
SURGERY	233	273	277	17.2	1.5
VETERINARY SCIENCES	17	44	25	158.8	-43.2
CLINICAL MEDICINE, N.E.C.	950	748	893	-21.3	19.4
HEALTH RELATED, N.E.C.	73	70	83	-4.1	18.6
PSYCHOLOGY	298	301	291	1.0	-3.3
SOCIAL SCIENCES	260	316	225	21.5	-28.8
AGRICULTURAL ECONOMICS	6	8	6	33.3	-25.0
ANTHROPOLOGY	25	23	16	-8.0	-30.4
ECONOMICS (EXCEPT AGRICULTURAL)	81	119	21	46.9	-82.4
GEOGRAPHY	2	12	16	500.0	33.3
HISTORY AND PHILOSOPHY OF SCIENCE	8	12	15	50.0	25.0
LINGUISTICS	19	38	32	100.0	-15.8
POLITICAL SCIENCE	18	25	38	38.9	52.0
SOCIOLOGY	73	58	54	-20.5	-6.9
SOCIOLOGY/ANTHROPOLOGY	2	0	0	-100.0	**
SOCIAL SCIENCES, N.E.C.	26	21	27	-19.2	28.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-54. -- FEMALE SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	3,337	3,543	4,092	6.2	15.5
ENGINEERING	50	66	79	32.0	19.7
AEROSPACE	0	0	2	**	**
AGRICULTURAL	1	1	0	.0	-100.0
BIOMEDICAL	6	5	6	-16.7	20.0
CHEMICAL	13	21	12	61.5	-42.9
CIVIL	5	11	8	120.0	-27.3
ELECTRICAL	3	5	10	66.7	100.0
ENGINEERING SCIENCE	4	5	3	25.0	-40.0
INDUSTRIAL	1	0	3	-100.0	**
MECHANICAL	2	3	8	50.0	166.7
METALLURGICAL/MATERIALS	11	12	15	9.1	25.0
MINING	0	0	5	**	**
NUCLEAR	2	1	4	-50.0	300.0
PETROLEUM	0	0	0	0	0
ENGINEERING, N.E.C.	2	2	3	.0	50.0
PHYSICAL SCIENCES	384	428	474	11.5	10.7
ASTRONOMY	10	13	10	30.0	-23.1
CHEMISTRY	303	330	365	8.9	10.6
PHYSICS	70	85	99	21.4	16.5
PHYSICAL SCIENCES, N.E.C.	1	0	0	-100.0	**
ENVIRONMENTAL SCIENCES	30	33	33	10.0	.0
ATMOSPHERIC SCIENCES	1	2	4	100.0	100.0
GEOSCIENCES	26	22	20	-15.4	-9.1
OCEANOGRAPHY	3	9	9	200.0	.0
ENVIRONMENTAL SCIENCES, N.E.C.	0	0	0	0	0
MATHEMATICAL/COMPUTER SCIENCES	22	16	19	-27.3	18.8
COMPUTER SCIENCE	6	3	9	-50.0	200.0
MATHEMATICS AND APPLIED MATHEMATICS	13	12	9	-7.7	-25.0
STATISTICS	3	1	1	-66.7	.0
LIFE SCIENCES	2,555	2,705	3,198	5.9	18.2
AGRICULTURAL SCIENCES	26	30	36	15.4	20.0
BIOLOGICAL SCIENCES	1,682	1,782	2,005	5.9	12.5
ANATOMY	68	68	76	.0	11.8
BIOCHEMISTRY	334	367	415	9.9	13.1
BIOLOGY	259	280	271	8.1	-3.2
BIOMETRY/EPIDEMIOLOGY	28	25	22	-10.7	-12.0
BIOPHYSICS	23	39	16	69.6	-59.0
BOTANY	39	59	62	51.3	5.1
CELL BIOLOGY	85	107	144	25.9	34.6
ECOLOGY	1	3	11	200.0	266.7
ENTOMOLOGY/PARASITOLOGY	23	19	20	-17.4	5.3
GENETICS	72	87	105	20.8	20.7
MICROBIOLOGY	239	235	279	-1.7	18.7
NUTRITION	49	31	50	-36.7	61.3
PATHOLOGY	104	113	102	8.7	-9.7
PHARMACOLOGY	140	129	157	-7.9	21.7
PHYSIOLOGY	134	138	182	3.0	31.9
ZOOLOGY	57	49	68	-14.0	38.8
BIOSCIENCES, N.E.C.	27	33	25	22.2	-24.2
HEALTH SCIENCES	847	893	1,157	5.4	29.6
ANESTHESIOLOGY	3	5	16	66.7	220.0
CANCER/ONCOLOGY	14	21	31	50.0	47.6
CARDIOLOGY	28	42	46	50.0	9.5
DENTISTRY	25	20	25	-20.0	25.0
ENDOCRINOLOGY	21	32	38	52.4	18.8
GASTROENTEROLOGY	19	17	21	-10.5	23.5
HEMATOLOGY	22	23	32	4.5	39.1
NEUROLOGY	56	74	69	32.1	-6.8
NURSING	4	7	2	75.0	-71.4
OBSTETRICS/GYNECOLOGY	25	28	38	12.0	35.7
OPHTHALMOLOGY	30	26	33	-13.3	26.9
OTORHINOLARYNGOLOGY	6	6	6	.0	.0
PEDIATRICS	136	117	195	-14.0	66.7
PHARMACEUTICAL SCIENCES	33	24	36	-27.3	50.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	23	60	47	160.9	-21.7
PSYCHIATRY	95	97	112	2.1	15.5
PULMONARY DISEASE	11	13	9	18.2	-30.8
RADIOLOGY	22	22	42	.0	90.9
SPEECH PATHOLOGY/AUDIOLOGY	15	5	7	-66.7	40.0
SURGERY	31	25	20	-19.4	-20.0
VETERINARY SCIENCES	9	17	21	88.9	23.5
CLINICAL MEDICINE, N.E.C.	194	173	280	-10.8	61.8
HEALTH RELATED, N.E.C.	25	39	31	56.0	-20.5
PSYCHOLOGY	156	173	182	10.9	5.2
SOCIAL SCIENCES	140	122	107	-12.9	-12.3
AGRICULTURAL ECONOMICS	0	0	0	0	0
ANTHROPOLOGY	16	17	14	6.3	-17.6
ECONOMICS (EXCEPT AGRICULTURAL)	17	25	8	47.1	-68.0
GEOGRAPHY	3	3	7	.0	133.3
HISTORY AND PHILOSOPHY OF SCIENCE	3	3	6	.0	100.0
LINGUISTICS	11	16	15	45.5	-6.3
POLITICAL SCIENCE	12	7	9	-41.7	28.6
SOCIOLOGY	42	42	36	.0	-14.3
SOCIOLOGY/ANTHROPOLOGY	2	2	0	.0	-100.0
SOCIAL SCIENCES, N.E.C.	34	7	12	-79.4	71.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-55. -- SCIENCE/ENGINEERING POSTDOCTORATES WITH U.S. CITIZENSHIP IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-81 1/

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1977-80	1980-81	1977-81
TOTAL, ALL FIELDS	13,336	12,035	11,907	12,357	-3.7	3.8	-1.9
ENGINEERING	592	417	303	332	-20.0	9.6	-13.5
AEROSPACE	18	9	6	8	-30.7	33.3	-18.4
AGRICULTURAL	14	20	4	4	-34.1	.0	-26.9
BIOMEDICAL	59	22	17	20	-34.0	17.6	-23.7
CHEMICAL	81	66	46	43	-17.2	-6.5	-14.6
CIVIL	61	53	57	34	-2.2	-40.4	-13.6
ELECTRICAL	99	68	39	104	-26.7	166.7	1.2
ENGINEERING SCIENCE	53	36	29	37	-18.2	27.6	-8.6
INDUSTRIAL	13	2	8	6	-14.9	-25.0	-17.6
MECHANICAL	79	57	43	25	-18.4	-41.9	-25.0
METALLURGICAL/MATERIALS	70	41	27	25	-27.2	-7.4	-22.7
MINING	6	0	1	5	-45.0	400.0	-4.5
NUCLEAR	14	4	5	4	-29.1	-20.0	-26.9
PETROLEUM	2	2	1	0	-20.6	-100.0	-100.0
ENGINEERING, N.E.C.	23	37	20	17	-4.6	-15.0	-7.3
PHYSICAL SCIENCES	2,464	2,007	2,103	2,101	-5.1	-.1	-3.9
ASTRONOMY	136	92	99	95	-10.0	-4.0	-8.6
CHEMISTRY	1,419	1,175	1,195	1,213	-5.6	1.5	-3.8
PHYSICS	907	738	798	778	-4.2	-2.5	-3.8
PHYSICAL SCIENCES, N.E.C.	2	2	11	15	76.5	36.4	65.5
ENVIRONMENTAL SCIENCES	271	204	205	214	-8.9	5.4	-5.5
ATMOSPHERIC SCIENCES	42	17	26	24	-14.8	-7.7	-13.1
GEOSCIENCES	157	138	124	133	-7.6	7.3	-4.1
OCEANOGRAPHY	54	41	44	48	-7.7	9.1	-3.8
ENVIRONMENTAL SCIENCES, N.E.C.	16	8	11	11	-11.7	.0	-8.9
MATHEMATICAL/COMPUTER SCIENCES	94	107	100	70	2.1	-30.0	-7.1
COMPUTER SCIENCE	59	57	45	25	-8.6	-44.4	-19.3
MATHEMATICS AND APPLIED MATHEMATICS	29	37	45	39	15.8	-13.3	7.7
STATISTICS	6	13	10	6	18.6	-40.0	.0
LIFE SCIENCES	9,294	8,581	8,459	9,010	-3.1	6.5	-.8
AGRICULTURAL SCIENCES	209	141	146	175	-11.3	19.9	-4.3
BIOLOGICAL SCIENCES	4,559	4,887	4,918	5,223	2.6	6.2	3.5
ANATOMY	167	208	207	200	7.4	-3.4	4.6
BIOCHEMISTRY	882	981	925	974	1.6	5.3	2.5
BIOLOGY	561	718	707	611	8.0	-13.6	2.2
BIOMETRY/EPIDEMIOLOGY	47	54	62	44	9.7	-29.0	-1.6
BIOPHYSICS	144	87	104	69	-10.3	-33.7	-16.8
BOTANY	124	111	158	165	7.8	4.4	7.0
CELL BIOLOGY	200	239	269	351	10.4	30.5	15.1
ECOLOGY	16	15	16	36	.0	125.0	22.5
ENTOMOLOGY/PARASITOLOGY	81	76	92	99	4.3	7.6	5.1
GENETICS	163	166	182	212	3.7	16.5	6.8
MICROBIOLOGY	692	648	656	710	-1.8	8.2	.6
NUTRITION	121	127	76	114	-14.4	50.0	-1.5
PATHOLOGY	327	328	360	347	3.3	-3.6	1.5
PHARMACOLOGY	391	434	403	500	1.0	24.1	6.3
PHYSIOLOGY	457	503	485	575	2.0	18.6	5.9
ZOOLOGY	129	136	147	146	4.5	-.7	3.1
BIOSCIENCES, N.E.C.	55	56	69	70	7.9	1.4	6.2
HEALTH SCIENCES	4,526	3,553	3,395	3,612	-9.1	6.4	-5.5
ANESTHESIOLOGY	56	49	33	46	-16.2	39.4	-4.8
CANCER/ONCOLOGY	92	76	105	92	4.5	-12.4	.0
CARDIOLOGY	410	237	274	254	-12.6	-7.3	-11.3
DENTISTRY	291	99	89	115	-32.6	29.2	-20.7
ENDOCRINOLOGY	167	119	126	143	-9.0	13.5	-3.8
GASTROENTEROLOGY	165	76	107	92	-13.4	-14.0	-13.6
HEMATOLOGY	201	135	125	138	-14.6	10.4	-9.0
NEUROLOGY	260	251	286	283	3.2	-1.0	2.1
NURSING	0	7	9	8	**	-11.1	**
OBSTETRICS/GYNECOLOGY	104	78	74	51	-10.7	-31.1	-16.3
OPHTHALMOLOGY	132	120	89	107	-12.3	20.2	-5.1
OTORHINOLARYNGOLOGY	22	26	32	24	13.3	-25.0	2.2
PEDIATRICS	382	418	352	451	-2.7	28.1	4.2
PHARMACEUTICAL SCIENCES	107	110	62	93	-16.6	50.0	-3.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	102	88	134	103	9.5	-23.1	.2
PSYCHIATRY	300	265	266	264	-3.9	-.8	-3.1
PULMONARY DISEASE	191	122	120	117	-14.4	-2.5	-11.5
RADIOLOGY	121	91	104	95	-4.9	-8.7	-5.9
SPEECH PATHOLOGY/AUDIOLOGY	29	34	16	14	-18.0	-12.5	-16.6
SURGERY	275	170	174	157	-14.2	-9.8	-13.1
VETERINARY SCIENCES	66	19	45	29	-12.0	-35.6	-18.6
CLINICAL MEDICINE, N.E.C.	1,000	891	704	855	-11.0	21.4	-3.8
HEALTH RELATED, N.E.C.	53	72	69	81	9.2	17.4	11.2
PSYCHOLOGY	360	420	444	419	7.2	-5.6	3.9
SOCIAL SCIENCES	261	299	293	209	3.9	-28.7	-5.4
AGRICULTURAL ECONOMICS	24	2	6	5	-37.0	-16.7	-32.4
ANTHROPOLOGY	46	34	37	26	-7.0	-29.7	-13.3
ECONOMICS (EXCEPT AGRICULTURAL)	29	50	92	18	46.9	-80.4	-11.2
GEOGRAPHY	2	2	4	7	26.0	75.0	36.8
HISTORY AND PHILOSOPHY OF SCIENCE	15	7	7	13	-22.4	85.7	-3.5
LINGUISTICS	15	10	22	20	13.6	-9.1	7.5
POLITICAL SCIENCE	21	26	21	23	.0	9.5	2.3
SOCIOLOGY	88	106	85	79	-1.1	-7.1	-2.7
SOCIOLOGY/ANTHROPOLOGY	0	4	2	0	**	-100.0	**
SOCIAL SCIENCES, N.E.C.	21	58	17	18	-6.8	5.9	-3.8

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-56. -- FOREIGN SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-81 1/

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1977-80	1980-81	1977-81
TOTAL, ALL FIELDS	6,152	6,054	6,506	7,298	1.9	12.2	4.4
ENGINEERING	653	653	676	699	1.2	3.4	1.7
AEROSPACE	28	23	14	6	-20.6	-57.1	-32.0
AGRICULTURAL	6	5	5	5	-5.9	.0	-4.5
BIOMEDICAL	14	10	11	14	-7.7	27.3	.0
CHEMICAL	130	129	143	131	3.2	-8.4	.2
CIVIL	92	70	63	69	-11.9	9.5	-6.9
ELECTRICAL	72	74	82	85	4.4	3.7	4.2
ENGINEERING SCIENCE	38	39	50	50	9.6	.0	7.1
INDUSTRIAL	7	5	8	7	4.6	-12.5	.0
MECHANICAL	82	86	94	98	4.7	4.3	4.6
METALLURGICAL/MATERIALS	139	168	144	168	1.2	16.7	4.9
MINING	8	5	3	11	-27.9	266.7	8.3
NUCLEAR	7	16	17	22	34.4	29.4	33.1
PETROLEUM	3	4	5	2	18.6	-60.0	-9.6
ENGINEERING, N.E.C.	27	19	37	31	11.1	-16.2	3.5
PHYSICAL SCIENCES	1,732	2,013	2,158	2,351	7.6	8.9	7.9
ASTRONOMY	31	37	42	37	10.7	-11.9	4.5
CHEMISTRY	1,239	1,429	1,515	1,648	6.9	8.8	7.4
PHYSICS	462	547	597	666	8.9	11.6	9.6
PHYSICAL SCIENCES, N.E.C.	0	0	4	0	**	-100.0	**
ENVIRONMENTAL SCIENCES	105	111	102	123	-1.0	20.6	4.0
ATMOSPHERIC SCIENCES	7	17	17	22	34.4	29.4	33.1
GEOSCIENCES	85	81	70	81	-6.3	15.7	-1.2
OCEANOGRAPHY	8	13	13	19	17.6	46.2	24.1
ENVIRONMENTAL SCIENCES, N.E.C.	5	0	2	1	-26.3	-50.0	-33.1
MATHEMATICAL/COMPUTER SCIENCES	51	93	105	77	27.2	-26.7	10.8
COMPUTER SCIENCE	16	18	17	23	2.0	35.3	9.5
MATHEMATICS AND APPLIED MATHEMATICS	25	65	77	49	45.5	-36.4	18.3
STATISTICS	10	10	11	5	7.2	-54.5	-15.9
LIFE SCIENCES	3,475	3,049	3,290	3,871	-1.8	17.7	2.7
AGRICULTURAL SCIENCES	84	74	93	115	3.5	23.7	8.2
BIOLOGICAL SCIENCES	1,943	1,869	2,078	2,362	2.3	13.7	5.0
ANATOMY	51	46	42	58	-6.3	38.1	3.3
BIOCHEMISTRY	498	507	594	725	6.1	22.1	9.8
BIOLOGY	286	239	260	240	-3.1	-7.7	-4.3
BIOMETRY/EPIDEMIOLOGY	18	14	10	18	-17.8	80.0	.0
BIOPHYSICS	77	18	52	46	-12.3	-11.5	-12.1
BOTANY	62	52	62	75	.0	21.0	4.9
CELL BIOLOGY	78	87	117	150	14.5	28.2	17.8
ECOLOGY	2	3	6	8	44.2	33.3	41.4
ENTOMOLOGY/PARASITOLOGY	38	28	27	28	-10.8	3.7	-7.4
GENETICS	46	65	69	78	14.5	13.0	14.1
MICROBIOLOGY	219	217	220	276	.2	25.5	6.0
NUTRITION	51	43	53	57	1.3	7.5	2.8
PATHOLOGY	93	105	116	123	7.6	6.0	7.2
PHARMACOLOGY	226	199	221	249	-.7	12.7	2.5
PHYSIOLOGY	150	173	178	179	5.9	.6	4.5
ZOOLOGY	28	44	21	32	-9.1	52.4	3.4
BIOSCIENCES, N.E.C.	20	29	30	20	14.5	-33.3	.0
HEALTH SCIENCES	1,448	1,106	1,119	1,394	-8.2	24.6	-.9
ANESTHESIOLOGY	19	13	21	20	3.4	-4.8	1.3
CANCER/ONCOLOGY	38	34	28	27	-9.7	-3.6	-8.2
CARDIOLOGY	92	61	60	89	-13.3	48.3	-.8
DENTISTRY	69	39	13	46	-42.7	253.8	-9.6
ENDOCRINOLOGY	60	24	35	57	-16.4	62.9	-1.3
GASTROENTEROLOGY	33	27	16	22	-21.4	37.5	-9.6
HEMATOLOGY	47	16	23	25	-21.2	8.7	-14.6
NEUROLOGY	53	82	69	84	9.2	21.7	12.2
NURSING	0	0	0	0	**	**	**
OBSTETRICS/GYNECOLOGY	63	65	48	62	-8.7	29.2	-.4
OPHTHALMOLOGY	54	18	33	37	-15.1	12.1	-9.0
OTORHINOLARYNGOLOGY	8	9	14	17	20.5	21.4	20.7
PEDIATRICS	132	93	75	108	-17.2	44.0	-4.9
PHARMACEUTICAL SCIENCES	130	125	171	150	9.6	-12.3	3.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	10	24	27	32	39.2	18.5	33.7
PSYCHIATRY	29	27	30	28	1.1	-6.7	-.9
PULMONARY DISEASE	37	21	7	10	-42.6	42.9	-27.9
RADIOLOGY	69	47	52	70	-9.0	34.6	.4
SPEECH PATHOLOGY/AUDIOLOGY	2	1	0	2	-100.0	**	.0
SURGERY	151	94	124	140	-6.4	12.9	-1.9
VETERINARY SCIENCES	26	7	16	17	-14.9	6.3	-10.1
CLINICAL MEDICINE, N.E.C.	315	253	217	318	-11.7	46.5	.2
HEALTH RELATED, N.E.C.	11	26	40	33	53.8	-17.5	31.6
PSYCHOLOGY	39	34	30	54	-8.4	80.0	8.5
SOCIAL SCIENCES	97	101	145	123	14.3	-15.2	6.1
AGRICULTURAL ECONOMICS	4	4	2	1	-20.6	-50.0	-29.3
ANTHROPOLOGY	7	7	3	4	-24.6	33.3	-13.1
ECONOMICS (EXCEPT AGRICULTURAL)	36	48	52	11	13.0	-78.8	-25.7
GEOGRAPHY	7	3	11	16	16.3	45.5	23.0
HISTORY AND PHILOSOPHY OF SCIENCE	7	4	8	8	4.6	.0	3.4
LINGUISTICS	14	20	32	27	31.7	-15.6	17.8
POLITICAL SCIENCE	6	4	11	24	22.4	118.2	41.4
SOCIOLOGY	11	9	15	11	10.9	-26.7	.0
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	**	**	**
SOCIAL SCIENCES, N.E.C.	5	2	11	21	30.1	90.9	43.2

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-57. -- NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	2,679	3,267	3,552	21.9	8.7
ENGINEERING	273	423	506	54.9	19.6
AEROSPACE	18	31	8	72.2	-74.2
AGRICULTURAL	9	5	3	-44.4	-40.0
BIOMEDICAL	6	4	4	-33.3	.0
CHEMICAL	37	51	75	37.8	47.1
CIVIL	25	38	33	52.0	-13.2
ELECTRICAL	65	77	81	18.5	5.2
ENGINEERING SCIENCE	27	23	35	-14.8	52.2
INDUSTRIAL	3	14	4	366.7	-71.4
MECHANICAL	45	68	113	51.1	66.2
METALLURGICAL/MATERIALS	21	80	96	281.0	20.0
MINING	9	0	0	-100.0	**
NUCLEAR	5	25	24	400.0	-4.0
PETROLEUM	1	0	0	-100.0	**
ENGINEERING, N.E.C.	2	7	30	250.0	328.6
PHYSICAL SCIENCES	463	474	619	2.4	30.6
ASTRONOMY	53	40	66	-24.5	65.0
CHEMISTRY	215	253	289	17.7	14.2
PHYSICS	195	181	264	-7.2	45.9
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0
ENVIRONMENTAL SCIENCES	104	154	142	48.1	-7.8
ATMOSPHERIC SCIENCES	30	23	32	-23.3	39.1
GEOSCIENCES	50	82	66	64.0	-19.5
OCEANOGRAPHY	20	38	33	90.0	-13.2
ENVIRONMENTAL SCIENCES, N.E.C.	4	11	11	175.0	.0
MATHEMATICAL/COMPUTER SCIENCES	113	135	169	19.5	25.2
COMPUTER SCIENCE	59	71	81	20.3	14.1
MATHEMATICS AND APPLIED MATHEMATICS	45	55	59	22.2	7.3
STATISTICS	9	9	29	.0	222.2
LIFE SCIENCES	1,484	1,831	1,738	23.4	-5.1
AGRICULTURAL SCIENCES	54	70	70	29.6	.0
BIOLOGICAL SCIENCES	918	1,083	1,044	18.0	-3.6
ANATOMY	21	33	65	57.1	97.0
BIOCHEMISTRY	196	224	212	14.3	-5.4
BIOLOGY	148	234	242	58.1	3.4
BIOMETRY/EPIDEMIOLOGY	14	16	21	14.3	31.3
BIOPHYSICS	22	33	44	50.0	33.3
BOTANY	16	41	29	156.3	-29.3
CELL BIOLOGY	24	33	37	37.5	12.1
ECOLOGY	12	14	10	16.7	-28.6
ENTOMOLOGY/PARASITOLOGY	33	43	35	30.3	-18.6
GENETICS	19	30	21	57.9	-30.0
MICROBIOLOGY	59	64	56	8.5	-12.5
NUTRITION	60	78	26	30.0	-66.7
PATHOLOGY	59	37	36	-37.3	-2.7
PHARMACOLOGY	116	98	70	-15.5	-28.6
PHYSIOLOGY	88	89	115	1.1	29.2
ZOOLOGY	23	16	18	-30.4	12.5
BIOSCIENCES, N.E.C.	8	0	7	-100.0	**
HEALTH SCIENCES	512	678	624	32.4	-8.0
ANESTHESIOLOGY	15	7	4	-53.3	-42.9
CANCER/ONCOLOGY	20	23	11	15.0	-52.2
CARDIOLOGY	31	16	30	-48.4	87.5
DENTISTRY	2	6	4	200.0	-33.3
ENDOCRINOLOGY	7	5	15	-28.6	200.0
GASTROENTEROLOGY	7	9	8	28.6	-11.1
HEMATOLOGY	5	22	4	340.0	-81.8
NEUROLOGY	33	47	44	42.4	-6.4
NURSING	2	0	2	-100.0	**
OBSTETRICS/GYNECOLOGY	9	3	3	-66.7	.0
OPHTHALMOLOGY	12	22	7	83.3	-68.2
OTORHINOLARYNGOLOGY	11	19	11	72.7	-42.1
PEDIATRICS	8	75	35	837.5	-53.3
PHARMACEUTICAL SCIENCES	34	25	31	-26.5	24.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	18	22	33	22.2	50.0
PSYCHIATRY	107	123	141	15.0	14.6
PULMONARY DISEASE	2	12	8	500.0	-33.3
RADIOLOGY	33	45	71	36.4	57.8
SPEECH PATHOLOGY/AUDIOLOGY	1	10	13	900.0	30.0
SURGERY	29	43	36	48.3	-16.3
VETERINARY SCIENCES	16	20	9	25.0	-55.0
CLINICAL MEDICINE, N.E.C.	103	120	99	16.5	-17.5
HEALTH RELATED, N.E.C.	7	4	5	-42.9	25.0
PSYCHOLOGY	63	103	156	63.5	51.5
SOCIAL SCIENCES	179	147	222	-17.9	51.0
AGRICULTURAL ECONOMICS	8	15	22	87.5	46.7
ANTHROPOLOGY	19	23	20	21.1	-13.0
ECONOMICS (EXCEPT AGRICULTURAL)	60	33	73	-45.0	121.2
GEOGRAPHY	1	4	6	300.0	50.0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	0	.0	-100.0
LINGUISTICS	6	0	9	-100.0	**
POLITICAL SCIENCE	29	18	36	-37.9	100.0
SOCIOLOGY	44	38	48	-13.6	26.3
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	11	15	8	36.4	-46.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-58. -- MALE NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	2,069	2,573	2,805	24.4	9.0
ENGINEERING	260	398	473	53.1	18.8
AEROSPACE	17	29	8	70.6	-72.4
AGRICULTURAL	9	5	2	-44.4	-60.0
BIOMEDICAL	6	2	3	-66.7	50.0
CHEMICAL	35	48	70	37.1	45.8
CIVIL	23	35	26	52.2	-25.7
ELECTRICAL	65	74	76	13.8	2.7
ENGINEERING SCIENCE	25	20	32	-20.0	60.0
INDUSTRIAL	3	12	2	300.0	-83.3
MECHANICAL	43	65	111	51.2	70.8
METALLURGICAL/MATERIALS	18	76	90	322.2	18.4
MINING	8	0	0	-100.0	**
NUCLEAR	5	25	23	400.0	-8.0
PETROLEUM	1	0	0	-100.0	**
ENGINEERING, N.E.C.	2	7	30	250.0	328.6
PHYSICAL SCIENCES	411	419	534	1.9	27.4
ASTRONOMY	51	37	61	-27.5	64.9
CHEMISTRY	175	209	221	19.4	5.7
PHYSICS	185	173	252	-6.5	45.7
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0
ENVIRONMENTAL SCIENCES	97	135	130	39.2	-3.7
ATMOSPHERIC SCIENCES	28	21	32	-25.0	52.4
GEOSCIENCES	48	75	60	56.3	-20.0
OCEANOGRAPHY	17	30	28	76.5	-6.7
ENVIRONMENTAL SCIENCES, N.E.C.	4	9	10	125.0	11.1
MATHEMATICAL/COMPUTER SCIENCES	102	123	163	20.6	32.5
COMPUTER SCIENCE	54	63	77	16.7	22.2
MATHEMATICS AND APPLIED MATHEMATICS	40	51	57	27.5	11.8
STATISTICS	8	9	29	12.5	222.2
LIFE SCIENCES	1,037	1,331	1,224	28.4	-8.0
AGRICULTURAL SCIENCES	49	59	56	20.4	-5.1
BIOLOGICAL SCIENCES	612	748	735	22.2	-1.7
ANATOMY	11	22	42	100.0	90.9
BIOCHEMISTRY	125	158	139	26.4	-12.0
BIOLOGY	78	143	151	83.3	5.6
BIOMETRY/EPIDEMIOLOGY	10	12	16	20.0	33.3
BIOPHYSICS	14	25	35	78.6	40.0
BOTANY	13	34	20	161.5	-41.2
CELL BIOLOGY	18	24	28	33.3	16.7
ECOLOGY	10	13	10	30.0	-23.1
ENTOMOLOGY/PARASITOLOGY	31	36	28	16.1	-22.2
GENETICS	17	23	11	35.3	-52.2
MICROBIOLOGY	36	40	37	11.1	-7.5
NUTRITION	39	52	21	33.3	-59.6
PATHOLOGY	48	29	32	-39.6	10.3
PHARMACOLOGY	86	67	61	-22.1	-9.0
PHYSIOLOGY	59	59	88	.0	49.2
ZOOLOGY	12	11	9	-8.3	-18.2
BIOSCIENCES, N.E.C.	5	0	7	-100.0	**
HEALTH SCIENCES	376	524	433	39.4	-17.4
ANESTHESIOLOGY	15	6	4	-60.0	-33.3
CANCER/ONCOLOGY	14	19	11	35.7	-42.1
CARDIOLOGY	18	13	24	-27.8	84.6
DENTISTRY	2	6	4	200.0	-33.3
ENDOCRINOLOGY	2	5	14	150.0	180.0
GASTROENTEROLOGY	6	8	6	33.3	-25.0
HEMATOLOGY	1	14	1	1300.0	-92.9
NEUROLOGY	26	41	38	57.7	-7.3
NURSING	1	0	2	-100.0	**
OBSTETRICS/GYNECOLOGY	8	3	2	-62.5	-33.3
OPHTHALMOLOGY	11	21	4	90.9	-81.0
OTORHINOLARYNGOLOGY	10	18	9	80.0	-50.0
PEDIATRICS	4	64	24	1500.0	-62.5
PHARMACEUTICAL SCIENCES	31	21	24	-32.3	14.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	10	16	28	60.0	75.0
PSYCHIATRY	72	75	76	4.2	1.3
PULMONARY DISEASE	2	10	8	400.0	-20.0
RADIOLOGY	23	30	47	30.4	56.7
SPEECH PATHOLOGY/AUDIOLOGY	1	7	9	600.0	28.6
SURGERY	25	34	26	36.0	-23.5
VETERINARY SCIENCES	9	13	3	44.4	-76.9
CLINICAL MEDICINE, N.E.C.	79	96	66	21.5	-31.3
HEALTH RELATED, N.E.C.	6	4	3	-33.3	-25.0
PSYCHOLOGY	30	57	99	90.0	73.7
SOCIAL SCIENCES	132	110	182	-16.7	65.5
AGRICULTURAL ECONOMICS	8	14	20	75.0	42.9
ANTHROPOLOGY	11	13	13	18.2	.0
ECONOMICS (EXCEPT AGRICULTURAL)	50	26	70	-48.0	169.2
GEOGRAPHY	1	4	5	300.0	25.0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	0	.0	-100.0
LINGUISTICS	4	0	7	-100.0	**
POLITICAL SCIENCE	27	18	25	-33.3	38.9
SOCIOLOGY	23	25	36	8.7	44.0
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	7	9	6	28.6	-33.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-59. -- FEMALE NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-81

FIELD	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL FIELDS	610	694	747	13.8	7.6
ENGINEERING	13	25	33	92.3	32.0
AEROSPACE	1	2	0	100.0	-100.0
AGRICULTURAL	0	0	1	**	**
BIOMEDICAL	0	2	1	**	-50.0
CHEMICAL	2	3	5	50.0	66.7
CIVIL	2	3	7	50.0	133.3
ELECTRICAL	0	3	5	**	66.7
ENGINEERING SCIENCE	2	3	3	50.0	.0
INDUSTRIAL	0	2	2	**	.0
MECHANICAL	2	3	2	50.0	-33.3
METALLURGICAL/MATERIALS	3	4	6	33.3	50.0
MINING	1	0	0	-100.0	**
NUCLEAR	0	0	1	**	**
PETROLEUM	0	0	0	0	0
ENGINEERING, N.E.C.	0	0	0	0	0
PHYSICAL SCIENCES	52	55	85	5.8	54.5
ASTRONOMY	2	3	5	50.0	66.7
CHEMISTRY	40	44	68	10.0	54.5
PHYSICS	10	8	12	-20.0	50.0
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0
ENVIRONMENTAL SCIENCES	7	19	12	171.4	-36.8
ATMOSPHERIC SCIENCES	2	2	0	.0	-100.0
GEOSCIENCES	2	7	6	250.0	-14.3
OCEANOGRAPHY	3	8	5	166.7	-37.5
ENVIRONMENTAL SCIENCES, N.E.C.	0	2	1	**	-50.0
MATHEMATICAL/COMPUTER SCIENCES	11	12	6	9.1	-50.0
COMPUTER SCIENCE	5	8	4	60.0	-50.0
MATHEMATICS AND APPLIED MATHEMATICS	5	4	2	-20.0	-50.0
STATISTICS	1	0	0	-100.0	**
LIFE SCIENCES	447	500	514	11.9	2.8
AGRICULTURAL SCIENCES	5	11	14	120.0	27.3
BIOLOGICAL SCIENCES	306	335	309	9.5	-7.8
ANATOMY	10	11	23	10.0	109.1
BIOCHEMISTRY	71	66	73	-7.0	10.6
BIOLOGY	70	91	91	30.0	.0
BIOMETRY/EPIDEMIOLOGY	4	4	5	.0	25.0
BIOPHYSICS	8	8	9	.0	12.5
BOTANY	3	7	9	133.3	28.6
CELL BIOLOGY	6	9	9	50.0	.0
ECOLOGY	2	1	0	-50.0	-100.0
ENTOMOLOGY/PARASITOLOGY	2	7	7	250.0	.0
GENETICS	2	7	10	250.0	42.9
MICROBIOLOGY	23	24	19	4.3	-20.8
NUTRITION	21	26	5	23.8	-80.8
PATHOLOGY	11	8	4	-27.3	-50.0
PHARMACOLOGY	30	31	9	3.3	-71.0
PHYSIOLOGY	29	30	27	3.4	-10.0
ZOOLOGY	11	5	9	-54.5	80.0
BIOSCIENCES, N.E.C.	3	0	0	-100.0	**
HEALTH SCIENCES	136	154	191	13.2	24.0
ANESTHESIOLOGY	0	1	0	**	-100.0
CANCER/ONCOLOGY	6	4	0	-33.3	-100.0
CARDIOLOGY	13	3	6	-76.9	100.0
DENTISTRY	0	0	0	0	0
ENDOCRINOLOGY	5	0	1	-100.0	**
GASTROENTEROLOGY	1	1	2	.0	100.0
HEMATOLOGY	4	8	3	100.0	-62.5
NEUROLOGY	7	6	6	-14.3	.0
NURSING	1	0	0	-100.0	**
OBSTETRICS/GYNECOLOGY	1	0	1	-100.0	**
OPHTHALMOLOGY	1	1	3	.0	200.0
OTORHINOLARYNGOLOGY	1	1	2	.0	100.0
PEDIATRICS	4	11	11	175.0	.0
PHARMACEUTICAL SCIENCES	3	4	7	33.3	75.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	8	6	5	-25.0	-16.7
PSYCHIATRY	35	48	65	37.1	35.4
PULMONARY DISEASE	0	2	0	**	-100.0
RADIOLOGY	10	15	24	50.0	60.0
SPEECH PATHOLOGY/AUDIOLOGY	0	3	4	**	33.3
SURGERY	4	9	10	125.0	11.1
VETERINARY SCIENCES	7	7	6	.0	-14.3
CLINICAL MEDICINE, N.E.C.	24	24	33	.0	37.5
HEALTH RELATED, N.E.C.	1	0	2	-100.0	**
PSYCHOLOGY	33	46	57	39.4	23.9
SOCIAL SCIENCES	47	37	40	-21.3	8.1
AGRICULTURAL ECONOMICS	0	1	2	**	100.0
ANTHROPOLOGY	8	10	7	25.0	-30.0
ECONOMICS (EXCEPT AGRICULTURAL)	10	7	3	-30.0	-57.1
GEOGRAPHY	0	0	1	**	**
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0
LINGUISTICS	2	0	2	-100.0	**
POLITICAL SCIENCE	2	0	11	-100.0	**
SOCIOLOGY	21	13	12	-38.1	-7.7
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	4	6	2	50.0	-66.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-1. -- SCIENCE/ENGINEERING GRADUATE STUDENTS
IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	43,991	46,215	51,897	52,714	49,306	51,831	2.3	5.1	2.8
ENGINEERING	3,781	3,860	4,719	5,110	4,876	5,991	5.2	22.9	8.0
AEROSPACE	34	28	22	5	7	7	-27.1	.0	-23.2
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	22	18	30	45	48	45	16.9	-6.3	12.7
CHEMICAL	123	140	138	190	133	214	1.6	60.9	9.7
CIVIL	585	616	796	789	793	970	6.3	22.3	8.8
ELECTRICAL	713	715	1,050	971	1,065	1,255	8.4	17.8	9.9
ENGINEERING SCIENCE	46	39	117	165	163	212	28.8	30.1	29.0
INDUSTRIAL	700	662	788	600	674	838	-.8	24.3	3.0
MECHANICAL	508	445	590	697	733	705	7.6	-3.8	5.6
METALLURGICAL/MATERIALS	40	43	69	100	71	78	12.2	9.9	11.8
MINING	9	11	7	6	7	18	-4.9	157.1	12.2
NUCLEAR	25	12	19	4	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	1	3	3	**	.0	**
ENGINEERING, N.E.C.	976	1,131	1,093	1,537	1,179	1,646	3.9	39.6	9.1
PHYSICAL SCIENCES	1,781	1,815	2,048	1,782	1,555	1,543	-2.7	-.8	-2.4
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	1,227	1,247	1,412	1,213	1,110	1,127	-2.0	1.5	-1.4
PHYSICS	424	428	460	380	320	301	-5.5	-5.9	-5.6
PHYSICAL SCIENCES, N.E.C.	130	140	176	189	125	115	-.8	-8.0	-2.0
ENVIRONMENTAL SCIENCES	1,328	1,287	1,348	1,273	1,413	1,456	1.2	3.0	1.5
ATMOSPHERIC SCIENCES	0	0	10	12	19	9	**	-52.6	**
GEOSCIENCES	450	484	547	553	543	530	3.8	-2.4	2.8
OCEANOGRAPHY	27	37	44	38	145	149	40.0	2.8	32.9
ENVIRONMENTAL SCIENCES, N.E.C.	851	766	747	670	706	768	-3.7	8.8	-1.7
MATHEMATICAL/COMPUTER SCIENCES	3,990	4,001	4,051	4,085	3,908	5,202	-.4	33.1	4.5
COMPUTER SCIENCE	1,437	1,644	1,868	2,193	2,236	3,363	9.2	50.4	15.2
MATHEMATICS AND APPLIED MATHEMATICS	2,365	2,158	1,975	1,691	1,515	1,710	-8.5	12.9	-5.3
STATISTICS	188	199	208	201	157	129	-3.5	-17.8	-6.1
LIFE SCIENCES	9,867	11,005	12,319	12,474	11,895	12,275	3.8	3.2	3.7
AGRICULTURAL SCIENCES	506	553	611	852	681	739	6.1	8.5	6.5
BIOLOGICAL SCIENCES	5,662	6,227	6,627	6,152	5,474	5,128	-.7	-6.3	-1.6
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	137	143	117	110	62	39	-14.7	-37.1	-18.9
BIOLOGY	4,662	5,166	5,388	4,949	4,244	4,100	-1.9	-3.4	-2.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	73	97	44	26	22	22	-21.3	.0	-18.1
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	63	51	53	**	3.9	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	53	51	52	48	52	50	-.4	-3.8	-1.0
MICROBIOLOGY	179	218	285	187	202	186	2.4	-7.9	.6
NUTRITION	116	123	221	244	272	234	18.6	-14.0	12.4
PATHOLOGY	274	263	259	330	395	238	7.6	-39.7	-2.3
PHARMACOLOGY	0	0	3	8	10	11	**	10.0	**
PHYSIOLOGY	63	58	64	0	0	0	-100.0	**	-100.0
ZOOLOGY	50	59	46	37	36	41	-6.4	13.9	-3.3
BIOSCIENCES, N.E.C.	55	49	148	150	128	154	18.4	20.3	18.7
HEALTH SCIENCES	3,699	4,225	5,081	5,470	5,740	6,408	9.2	11.6	9.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	21	33	**	57.1	**
DENTISTRY	24	21	26	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	29	29	14	**	-51.7	**
NURSING	538	633	956	1,195	1,127	1,635	15.9	45.1	20.4
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	28	29	26	26	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	58	61	99	129	90	96	9.2	6.7	8.8
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	1,226	1,471	1,741	1,835	1,867	2,051	8.8	9.9	9.0
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	28	21	15	15	23	-7.4	53.3	.7
CLINICAL MEDICINE, N.E.C.	7	62	177	240	396	361	124.1	-8.8	92.9
HEALTH RELATED, N.E.C.	1,824	1,949	2,033	1,998	2,169	2,169	3.5	.0	2.9
PSYCHOLOGY	9,271	9,367	10,571	11,809	11,204	11,799	3.9	5.3	4.1
SOCIAL SCIENCES	13,973	14,910	16,841	16,181	14,455	13,565	.7	-6.2	-.5
AGRICULTURAL ECONOMICS	15	17	21	23	42	27	22.9	-35.7	10.3
ANTHROPOLOGY	406	416	540	432	399	313	-.3	-21.6	-4.2
ECONOMICS (EXCEPT AGRICULTURAL)	1,058	937	948	844	901	937	-3.2	4.0	-2.0
GEOGRAPHY	651	717	577	462	481	455	-5.9	-5.4	-5.8
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	290	307	273	137	135	129	-14.2	-4.4	-12.6
POLITICAL SCIENCE	5,779	6,270	7,453	7,279	6,886	6,766	3.6	-1.7	2.7
SOCIOLOGY	1,037	1,038	1,080	968	776	766	-5.6	-1.3	-4.9
SOCIOLOGY/ANTHROPOLOGY	146	132	132	98	111	89	-5.3	-19.8	-7.9
SOCIAL SCIENCES, N.E.C.	4,591	5,076	5,817	5,938	4,724	4,083	.6	-13.6	-1.9

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-2. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	29,876	31,585	35,271	36,226	32,525	35,073	1.7	7.8	2.7
ENGINEERING	2,024	2,303	2,764	3,059	2,825	3,604	6.9	27.6	10.1
AEROSPACE	24	19	8	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	35	38	35	**	-7.9	**
CHEMICAL	58	61	81	105	34	102	-10.1	200.0	9.9
CIVIL	466	488	637	625	605	779	5.4	28.8	8.9
ELECTRICAL	271	294	512	438	530	632	14.4	19.2	15.2
ENGINEERING SCIENCE	3	2	7	7	8	6	21.7	-25.0	12.2
INDUSTRIAL	226	229	247	151	269	385	3.5	43.1	9.3
MECHANICAL	187	194	296	267	289	301	9.1	4.2	8.3
METALLURGICAL/MATERIALS	19	26	48	68	38	28	14.9	-26.3	6.7
MINING	9	11	7	6	7	18	-4.9	157.1	12.2
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	1	3	3	**	.0	**
ENGINEERING, N.E.C.	761	979	921	1,356	1,004	1,315	5.7	31.0	9.5
PHYSICAL SCIENCES	1,274	1,343	1,535	1,296	1,180	1,182	-1.5	.2	-1.2
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	834	880	1,034	878	797	811	-.9	1.8	-.5
PHYSICS	336	343	352	308	258	257	-5.1	-.4	-4.4
PHYSICAL SCIENCES, N.E.C.	104	120	149	110	125	114	3.7	-8.8	1.5
ENVIRONMENTAL SCIENCES	1,284	1,244	1,266	1,181	1,304	1,257	.3	-3.6	-.4
ATMOSPHERIC SCIENCES	0	0	10	12	19	9	**	-52.6	**
GEOSCIENCES	446	481	547	553	543	530	4.0	-2.4	2.9
OCEANOGRAPHY	27	37	44	38	145	149	40.0	2.8	32.9
ENVIRONMENTAL SCIENCES, N.E.C.	811	726	665	578	597	569	-5.9	-4.7	-5.7
MATHEMATICAL/COMPUTER SCIENCES	2,769	2,726	2,606	2,741	2,530	3,526	-1.8	39.4	4.1
COMPUTER SCIENCE	517	680	761	1,132	1,106	1,908	16.4	72.5	24.3
MATHEMATICS AND APPLIED MATHEMATICS	2,171	1,991	1,795	1,576	1,390	1,574	-8.5	13.2	-5.2
STATISTICS	81	55	50	33	34	44	-15.9	29.4	-9.7
LIFE SCIENCES	7,466	8,556	9,507	9,923	9,124	9,254	4.1	1.4	3.6
AGRICULTURAL SCIENCES	476	522	560	829	657	687	6.7	4.6	6.3
BIOLOGICAL SCIENCES	4,535	5,102	5,396	4,959	4,612	4,197	-.5	-4.9	-1.3
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	52	53	52	57	17	0	-20.0	-100.0	-100.0
BIOLOGY	3,879	4,394	4,622	4,114	3,541	3,569	-1.8	.8	-1.4
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	71	95	39	17	15	14	-26.7	-6.7	-23.7
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	10	13	13	**	.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	113	129	146	118	129	109	2.7	-15.5	-.6
NUTRITION	116	123	221	244	246	194	16.2	-21.1	8.9
PATHOLOGY	261	254	236	319	380	220	7.8	-42.1	-2.8
PHARMACOLOGY	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	42	51	39	28	30	22	-6.5	-26.7	-10.2
BIOSCIENCES, N.E.C.	1	3	41	52	41	56	110.2	36.6	95.6
HEALTH SCIENCES	2,454	2,932	3,551	4,135	4,055	4,370	10.6	7.8	10.1
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0
NURSING	316	363	616	869	690	1,010	16.9	46.4	21.4
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	10	15	15	15	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	58	61	99	129	90	96	9.2	6.7	8.8
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	996	1,212	1,435	1,497	1,587	1,788	9.8	12.7	10.2
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	0	47	161	215	225	193	**	-14.2	**
HEALTH RELATED, N.E.C.	1,084	1,249	1,230	1,410	1,448	1,268	6.0	-12.4	2.6
PSYCHOLOGY	6,459	6,450	7,300	7,796	6,960	7,474	1.5	7.4	2.5
SOCIAL SCIENCES	8,601	8,963	10,293	10,230	8,602	8,776	*	2.0	.3
AGRICULTURAL ECONOMICS	15	17	21	23	42	27	22.9	-35.7	10.3
ANTHROPOLOGY	401	411	535	425	395	309	-.3	-21.8	-4.3
ECONOMICS (EXCEPT AGRICULTURAL)	798	713	751	594	528	557	-7.9	5.5	-5.8
GEOGRAPHY	648	715	566	457	479	453	-5.9	-5.4	-5.8
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	195	209	137	137	135	129	-7.1	-4.4	-6.7
POLITICAL SCIENCE	3,346	3,974	4,339	4,315	4,137	4,379	4.3	5.8	4.6
SOCIOLOGY	772	740	841	669	548	654	-6.6	19.3	-2.7
SOCIOLOGY/ANTHROPOLOGY	132	117	119	86	99	77	-5.6	-22.2	-8.6
SOCIAL SCIENCES, N.E.C.	2,294	2,067	2,984	3,524	2,239	2,191	-.5	-2.1	-.8

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-3. -- SCIENCE/ENGINEERING GRADUATE STUDENTS
IN PRIVATE MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	14,115	14,660	16,626	16,488	16,781	16,758	3.5	-0.1	2.9
ENGINEERING	1,757	1,557	1,955	2,051	2,051	2,387	3.1	16.4	5.2
AEROSPACE	10	9	14	5	7	7	-6.9	.0	-5.8
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	22	18	30	10	10	10	-14.6	.0	-12.3
CHEMICAL	65	79	57	85	99	112	8.8	13.1	9.5
CIVIL	119	128	159	164	188	191	9.6	1.6	8.2
ELECTRICAL	442	421	538	533	535	623	3.9	16.4	5.9
ENGINEERING SCIENCE	43	37	110	158	155	206	29.2	32.9	29.8
INDUSTRIAL	474	433	541	449	405	453	-3.1	11.9	-.8
MECHANICAL	321	251	294	430	444	404	6.7	-9.0	3.9
METALLURGICAL/MATERIALS	21	17	21	32	33	50	9.5	51.5	15.6
MINING	0	0	0	0	0	0	0	0	0
NUCLEAR	25	12	19	4	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	215	152	172	181	175	331	-4.0	89.1	7.5
PHYSICAL SCIENCES	507	472	513	486	375	361	-5.9	-3.7	-5.5
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	393	367	378	335	313	316	-4.5	1.0	-3.6
PHYSICS	88	85	108	72	62	44	-6.8	-29.0	-10.9
PHYSICAL SCIENCES, N.E.C.	26	20	27	79	0	1	-100.0	**	-41.9
ENVIRONMENTAL SCIENCES	44	43	82	92	109	199	19.9	82.6	28.6
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0
GEOSCIENCES	4	3	0	0	0	0	-100.0	**	-100.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	40	40	82	92	109	199	22.2	82.6	30.7
MATHEMATICAL/COMPUTER SCIENCES	1,221	1,275	1,445	1,344	1,378	1,676	2.4	21.6	5.4
COMPUTER SCIENCE	920	964	1,107	1,061	1,130	1,455	4.2	28.8	7.9
MATHEMATICS AND APPLIED MATHEMATICS	194	167	180	115	125	136	-8.4	8.8	-5.7
STATISTICS	107	144	158	168	123	85	2.8	-30.9	-3.8
LIFE SCIENCES	2,402	2,449	2,812	2,551	2,771	3,021	2.9	9.0	3.9
AGRICULTURAL SCIENCES	30	31	51	23	24	52	-4.4	116.7	9.6
BIOLOGICAL SCIENCES	1,127	1,125	1,231	1,193	1,062	931	-1.2	-12.3	-3.1
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	85	90	65	53	45	39	-11.9	-13.3	-12.2
BIOLOGY	783	772	766	835	703	531	-2.1	-24.5	-6.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	2	2	5	9	7	8	28.5	14.3	26.0
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	53	38	40	**	5.3	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	53	51	52	48	52	50	-.4	-3.8	-1.0
MICROBIOLOGY	66	89	139	69	73	77	2.0	5.5	2.6
NUTRITION	0	0	0	0	26	40	**	53.8	**
PATHOLOGY	13	9	23	11	15	18	2.9	20.0	5.6
PHARMACOLOGY	0	0	3	8	10	11	**	10.0	**
PHYSIOLOGY	63	58	64	0	0	0	-100.0	**	-100.0
ZOOLOGY	8	8	7	9	6	19	-5.6	216.7	15.5
BIOSCIENCES, N.E.C.	54	46	107	98	87	98	10.0	12.6	10.4
HEALTH SCIENCES	1,245	1,293	1,530	1,335	1,685	2,038	6.2	20.9	8.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	21	33	**	57.1	**
DENTISTRY	24	21	26	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	29	29	14	**	-51.7	**
NURSING	222	270	340	326	437	625	14.5	43.0	18.8
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	18	14	11	11	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0	0	0	0
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	230	259	306	338	280	263	4.0	-6.1	2.3
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	28	21	15	15	23	-7.4	53.3	.7
CLINICAL MEDICINE, N.E.C.	7	15	16	25	171	168	89.5	-1.8	69.8
HEALTH RELATED, N.E.C.	740	700	803	588	721	901	-.5	25.0	3.3
PSYCHOLOGY	2,812	2,917	3,271	4,013	4,244	4,325	8.6	1.9	7.4
SOCIAL SCIENCES	5,372	5,947	6,548	5,951	5,853	4,789	1.7	-18.2	-1.9
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	0	0
ANTHROPOLOGY	5	5	5	7	4	4	-4.4	.0	-3.7
ECONOMICS (EXCEPT AGRICULTURAL)	260	224	197	250	373	380	7.5	1.9	6.5
GEOGRAPHY	3	2	11	5	2	2	-7.8	.0	-6.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	95	98	136	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	2,433	2,296	3,114	2,964	2,749	2,387	2.5	-13.2	-.3
SOCIOLOGY	265	298	239	299	228	112	-3.0	-50.9	-13.4
SOCIOLOGY/ANTHROPOLOGY	14	15	13	12	12	12	-3.0	.0	-2.5
SOCIAL SCIENCES, N.E.C.	2,297	3,009	2,833	2,414	2,485	1,892	1.6	-23.9	-3.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-4. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-77 AND 1979-81

DIVISION AND STATE	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL INSTITUTIONS	43,991	46,245	51,897	52,714	49,306	51,831	2.3	5.1	2.8
NEW ENGLAND	3,261	2,982	4,170	4,909	5,254	4,303	10.0	-18.1	4.7
CONNECTICUT	1,505	1,404	2,058	2,766	2,879	2,597	13.9	-9.8	9.5
MAINE	0	0	0	0	0	0	**	**	**
MASSACHUSETTS	1,025	857	1,348	1,380	1,579	1,533	9.0	-2.9	6.9
NEW HAMPSHIRE	79	67	52	43	67	38	-3.2	-43.3	-11.5
RHODE ISLAND	65	58	78	112	123	129	13.6	4.9	12.1
VERMONT	587	596	634	608	606	6	.6	-99.0	-53.4
MIDDLE ATLANTIC	9,812	9,933	10,551	9,187	7,089	8,131	-6.3	14.7	-3.1
NEW JERSEY	3,245	3,041	2,982	1,465	1,060	1,155	-20.1	9.0	-15.8
NEW YORK	5,068	4,872	5,443	5,502	3,983	4,647	-4.7	16.7	-1.4
PENNSYLVANIA	1,499	2,020	2,126	2,220	2,046	2,329	6.4	13.8	7.6
EAST NORTH CENTRAL	6,246	6,115	5,819	5,722	6,346	6,602	.3	4.0	.9
ILLINOIS	3,705	3,640	3,406	3,406	3,447	3,426	-1.4	-.6	-1.3
INDIANA	266	275	424	393	390	397	8.0	1.8	6.9
MICHIGAN	850	780	486	471	608	736	-6.5	21.1	-2.4
OHIO	857	833	848	859	1,120	1,147	5.5	2.4	5.0
WISCONSIN	568	587	655	593	781	896	6.6	14.7	7.9
WEST NORTH CENTRAL	1,405	1,543	1,608	1,765	1,926	1,917	6.5	-.5	5.3
IOWA	247	269	275	143	155	151	-8.9	-2.6	-7.9
KANSAS	531	554	580	582	682	872	5.1	27.9	8.6
MINNESOTA	411	388	372	626	589	493	7.5	-16.3	3.1
MISSOURI	208	323	367	403	479	389	18.2	-18.8	11.0
NEBRASKA	8	9	14	11	21	12	21.3	-42.9	7.0
NORTH DAKOTA	0	0	0	0	0	0	**	**	**
SOUTH DAKOTA	0	0	0	0	0	0	**	**	**
SOUTH ATLANTIC	5,704	6,050	5,880	5,948	4,890	5,347	-3.0	9.3	-1.1
DELAWARE	0	0	0	0	0	0	**	**	**
DISTRICT OF COLUMBIA	96	104	99	94	95	108	-.2	13.7	2.0
FLORIDA	1,569	1,663	1,818	1,650	1,176	987	-5.6	-16.1	-7.4
GEORGIA	589	677	652	502	431	437	-6.1	1.4	-4.9
MARYLAND	1,419	1,406	1,164	2,068	1,919	2,016	6.2	5.1	6.0
NORTH CAROLINA	687	684	774	442	655	646	-.9	-1.4	-1.0
SOUTH CAROLINA	136	131	112	150	126	146	-1.5	15.9	1.2
VIRGINIA	684	890	824	922	488	463	-6.5	-5.1	-6.3
WEST VIRGINIA	524	495	437	120	0	544	-100.0	**	.6
EAST SOUTH CENTRAL	1,589	1,602	1,872	2,414	1,869	2,155	3.3	15.3	5.2
ALABAMA	274	288	349	573	497	502	12.6	1.0	10.6
KENTUCKY	450	380	590	688	641	660	7.3	3.0	6.6
MISSISSIPPI	231	349	332	290	237	211	.5	-11.0	-1.5
TENNESSEE	634	585	601	863	494	782	-4.9	58.3	3.6
WEST SOUTH CENTRAL	2,827	3,549	4,020	4,674	4,249	4,365	8.5	2.7	7.5
ARKANSAS	251	398	347	423	435	478	11.6	9.9	11.3
LOUISIANA	328	359	331	289	278	437	-3.3	57.2	4.9
OKLAHOMA	53	56	78	150	149	107	23.0	-28.2	12.4
TEXAS	2,195	2,736	3,264	3,812	3,387	3,343	9.1	-1.3	7.3
MOUNTAIN	341	353	512	610	537	636	9.5	18.4	10.9
ARIZONA	0	0	0	0	0	0	**	**	**
COLORADO	31	31	18	33	47	49	8.7	4.3	7.9
IDAHO	0	0	0	0	0	0	**	**	**
MONTANA	18	25	21	31	41	46	17.9	12.2	16.9
NEVADA	161	161	249	209	189	214	3.3	13.2	4.9
NEW MEXICO	131	136	224	337	260	327	14.7	25.8	16.5
UTAH	0	0	0	0	0	0	**	**	**
WYOMING	0	0	0	0	0	0	**	**	**
PACIFIC	12,793	14,096	17,394	17,446	17,095	18,342	6.0	7.3	6.2
ALASKA	47	79	206	186	220	221	36.2	.5	29.4
CALIFORNIA	11,829	12,999	16,254	15,996	15,719	16,827	5.9	7.0	6.0
HAWAII	0	0	0	0	0	0	**	**	**
OREGON	128	149	141	130	170	283	5.8	66.5	14.1
WASHINGTON	789	869	793	1,134	986	1,011	4.6	2.5	4.2
OUTLYING AREAS	13	22	71	39	51	33	31.4	-35.3	16.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-5. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY AREA, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-81

AREA AND RACIAL/ETHNIC BACKGROUND	FULL TIME			PART TIME		
	NUMBER		PERCENT CHANGE, 1980-81	NUMBER		PERCENT CHANGE, 1980-81
	1980	1981		1980	1981	
TOTAL, ALL AREAS:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	18,477	18,899	2.3	30,829	32,932	6.8
BLACK, NON-HISPANIC	1,010	937	-7.2	1,274	1,252	-1.7
AMERICAN INDIAN/ALASKAN NATIVE	80	45	-43.8	61	58	-4.9
ASIAN/PACIFIC ISLANDER	316	332	5.1	584	592	1.4
HISPANIC	359	375	4.5	560	566	1.1
WHITE, NON-HISPANIC	8,644	8,398	-2.8	15,510	15,542	.2
FOREIGN, OTHER, OR UNKNOWN	8,068	8,812	9.2	12,840	14,922	16.2
ENGINEERING:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	1,126	1,295	15.0	3,750	4,696	25.2
BLACK, NON-HISPANIC	36	25	-30.6	60	68	13.3
AMERICAN INDIAN/ALASKAN NATIVE	0	0	0	0	1	**
ASIAN/PACIFIC ISLANDER	22	50	127.3	187	175	-6.4
HISPANIC	10	8	-20.0	84	58	-31.0
WHITE, NON-HISPANIC	262	308	17.6	1,348	1,593	18.2
FOREIGN, OTHER, OR UNKNOWN	796	904	13.6	2,071	2,801	35.2
PHYSICAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	656	720	9.8	899	823	-8.5
BLACK, NON-HISPANIC	61	54	-11.5	26	36	38.5
AMERICAN INDIAN/ALASKAN NATIVE	0	0	0	0	3	**
ASIAN/PACIFIC ISLANDER	18	33	83.3	32	25	-21.9
HISPANIC	14	7	-50.0	16	9	-43.8
WHITE, NON-HISPANIC	280	285	1.8	484	403	-16.7
FOREIGN, OTHER, OR UNKNOWN	283	341	20.5	341	347	1.8
ENVIRONMENTAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	704	633	-10.1	709	823	16.1
BLACK, NON-HISPANIC	12	18	50.0	20	11	-45.0
AMERICAN INDIAN/ALASKAN NATIVE	2	1	-50.0	0	0	0
ASIAN/PACIFIC ISLANDER	8	1	-87.5	9	10	11.1
HISPANIC	4	10	150.0	12	3	-75.0
WHITE, NON-HISPANIC	353	324	-8.2	443	401	-9.5
FOREIGN, OTHER, OR UNKNOWN	325	279	-14.2	225	398	76.9
MATHEMATICAL/COMPUTER SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	1,203	1,602	33.2	2,705	3,600	33.1
BLACK, NON-HISPANIC	64	52	-18.8	92	86	-6.5
AMERICAN INDIAN/ALASKAN NATIVE	1	2	100.0	2	1	-50.0
ASIAN/PACIFIC ISLANDER	66	80	21.2	140	118	-15.7
HISPANIC	23	20	-13.0	39	67	71.8
WHITE, NON-HISPANIC	468	460	-1.7	1,209	1,273	5.3
FOREIGN, OTHER, OR UNKNOWN	581	988	70.1	1,223	2,055	68.0
AGRICULTURAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	374	425	13.6	307	314	2.3
BLACK, NON-HISPANIC	7	4	-42.9	6	23	283.3
AMERICAN INDIAN/ALASKAN NATIVE	1	1	.0	0	1	**
ASIAN/PACIFIC ISLANDER	0	0	0	1	10	900.0
HISPANIC	4	2	-50.0	3	2	-33.3
WHITE, NON-HISPANIC	115	168	46.1	148	103	-30.4
FOREIGN, OTHER, OR UNKNOWN	247	250	1.2	149	175	17.4
BIOLOGICAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	2,265	2,284	.8	3,209	2,844	-11.4
BLACK, NON-HISPANIC	181	137	-24.3	124	109	-12.1
AMERICAN INDIAN/ALASKAN NATIVE	6	3	-50.0	20	3	-85.0
ASIAN/PACIFIC ISLANDER	77	33	-57.1	43	44	2.3
HISPANIC	27	37	37.0	58	45	-22.4
WHITE, NON-HISPANIC	1,201	1,013	-15.7	2,057	1,630	-20.8
FOREIGN, OTHER, OR UNKNOWN	773	1,061	37.3	907	1,013	11.7
HEALTH SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	2,021	2,310	14.3	3,719	4,098	10.2
BLACK, NON-HISPANIC	98	94	-4.1	185	194	4.9
AMERICAN INDIAN/ALASKAN NATIVE	2	5	150.0	12	11	-8.3
ASIAN/PACIFIC ISLANDER	19	34	78.9	32	70	118.8
HISPANIC	51	69	35.3	91	69	-24.2
WHITE, NON-HISPANIC	1,226	1,225	-.1	2,445	2,440	-.2
FOREIGN, OTHER, OR UNKNOWN	625	883	41.3	954	1,314	37.7
PSYCHOLOGY:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	5,099	5,227	2.5	6,105	6,572	7.6
BLACK, NON-HISPANIC	187	194	3.7	206	204	-1.0
AMERICAN INDIAN/ALASKAN NATIVE	41	15	-63.4	11	17	54.5
ASIAN/PACIFIC ISLANDER	55	37	-32.7	29	35	20.7
HISPANIC	120	80	-33.3	111	85	-23.4
WHITE, NON-HISPANIC	2,840	2,944	3.7	2,874	3,489	21.4
FOREIGN, OTHER, OR UNKNOWN	1,856	1,957	5.4	2,874	2,742	-4.6
SOCIAL SCIENCES:						
TOTAL, ALL RACIAL/ETHNIC BACKGROUNDS	5,029	4,403	-12.4	9,426	9,162	-2.8
BLACK, NON-HISPANIC	364	359	-1.4	555	521	-6.1
AMERICAN INDIAN/ALASKAN NATIVE	27	18	-33.3	16	21	31.3
ASIAN/PACIFIC ISLANDER	51	64	25.5	111	105	-5.4
HISPANIC	106	142	34.0	146	228	56.2
WHITE, NON-HISPANIC	1,899	1,671	-12.0	4,502	4,210	-6.5
FOREIGN, OTHER, OR UNKNOWN	2,582	2,149	-16.8	4,096	4,077	-.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-6. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	16,373	16,823	18,725	18,977	18,477	18,899	2.4	2.3	2.4
ENGINEERING	730	733	890	1,049	1,126	1,295	9.1	15.0	10.0
AEROSPACE	20	12	9	1	3	3	-31.6	.0	-27.1
AGRICULTURAL	0	0	0	0	0	0	.0	.0	.0
BIOMEDICAL	1	2	0	19	17	14	76.2	-17.6	55.2
CHEMICAL	35	36	38	56	52	60	8.2	15.4	9.4
CIVIL	114	114	148	181	161	227	7.1	41.0	12.2
ELECTRICAL	92	84	192	188	251	256	22.2	2.0	18.6
ENGINEERING SCIENCE	3	5	9	8	17	16	41.5	-5.9	32.2
INDUSTRIAL	109	103	131	117	196	210	12.5	7.1	11.5
MECHANICAL	77	58	108	91	111	85	7.6	-23.4	1.7
METALLURGICAL/MATERIALS	7	7	10	15	18	18	20.8	.0	17.0
MINING	5	11	7	6	7	17	7.0	142.9	22.6
NUCLEAR	6	0	5	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	1	3	3	**	.0	**
ENGINEERING, N.E.C.	261	301	233	366	290	386	2.1	33.1	6.7
PHYSICAL SCIENCES	642	671	767	744	656	720	.4	9.8	1.9
ASTRONOMY	0	0	0	0	0	0	.0	.0	.0
CHEMISTRY	402	427	552	517	497	565	4.3	13.7	5.8
PHYSICS	188	189	159	184	131	122	-7.0	-6.9	-7.0
PHYSICAL SCIENCES, N.E.C.	52	55	56	43	28	33	-11.6	17.9	-7.3
ENVIRONMENTAL SCIENCES	688	542	528	547	704	633	.5	-10.1	-1.4
ATMOSPHERIC SCIENCES	0	0	4	3	12	6	**	-50.0	**
GEOSCIENCES	166	176	181	210	258	184	9.2	-28.7	1.7
OCEANOGRAPHY	27	35	31	23	38	33	7.1	-13.2	3.4
ENVIRONMENTAL SCIENCES, N.E.C.	495	331	312	311	396	410	-4.4	3.5	-3.1
MATHEMATICAL/COMPUTER SCIENCES	1,043	1,136	959	1,312	1,203	1,602	2.9	33.2	7.4
COMPUTER SCIENCE	379	459	402	775	704	1,148	13.2	63.1	20.3
MATHEMATICS AND APPLIED MATHEMATICS	630	654	541	525	493	450	-4.8	-8.7	-5.5
STATISTICS	34	23	16	12	6	4	-29.3	-33.3	-30.0
LIFE SCIENCES	3,929	4,409	4,559	4,693	4,660	5,019	3.5	7.7	4.2
AGRICULTURAL SCIENCES	246	277	283	458	374	425	8.7	13.6	9.5
BIOLOGICAL SCIENCES	2,265	2,588	2,486	2,530	2,265	2,284	.0	.8	.1
ANATOMY	0	0	0	0	0	0	.0	.0	.0
BIOCHEMISTRY	33	46	33	49	32	19	-.6	-40.6	-8.8
BIOLOGY	1,773	2,104	1,966	2,086	1,727	1,782	-.5	3.2	.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	.0	.0	.0
BIOPHYSICS	0	0	0	0	0	0	.0	.0	.0
BOTANY	51	75	38	18	14	13	-22.8	-7.1	-20.4
CELL BIOLOGY	0	0	0	0	0	0	.0	.0	.0
ECOLOGY	0	0	0	10	10	8	**	-20.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	.0	.0	.0
GENETICS	24	32	38	43	48	47	14.9	-2.1	11.9
MICROBIOLOGY	31	83	119	23	63	51	15.2	-19.0	8.7
NUTRITION	78	66	109	75	109	94	6.9	-13.8	3.2
PATHOLOGY	216	115	108	178	203	195	-1.2	-3.9	-1.7
PHARMACOLOGY	0	0	1	2	2	1	**	-50.0	**
PHYSIOLOGY	12	5	15	0	0	0	-100.0	**	-100.0
ZOOLOGY	41	51	42	29	36	21	-2.6	-41.7	-10.6
BIOSCIENCES, N.E.C.	6	11	17	17	21	53	28.5	152.4	43.8
HEALTH SCIENCES	1,418	1,544	1,790	1,705	2,021	2,310	7.3	14.3	8.5
ANESTHESIOLOGY	0	0	0	0	0	0	.0	.0	.0
CANCER/ONCOLOGY	0	0	0	0	0	0	.0	.0	.0
CARDIOLOGY	0	0	0	0	18	25	**	38.9	**
DENTISTRY	24	21	26	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	.0	.0	.0
GASTROENTEROLOGY	0	0	0	0	0	0	.0	.0	.0
HEMATOLOGY	0	0	0	0	0	0	.0	.0	.0
NEUROLOGY	0	0	0	22	22	14	**	-36.4	**
NURSING	190	196	328	195	243	402	5.0	65.4	13.3
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	.0	.0	.0
OPHTHALMOLOGY	0	0	0	0	0	0	.0	.0	.0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	.0	.0	.0
PEDIATRICS	0	0	0	0	0	0	.0	.0	.0
PHARMACEUTICAL SCIENCES	0	0	12	19	15	16	**	6.7	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	18	21	20	33	25	30	6.8	20.0	8.9
PSYCHIATRY	0	0	0	0	0	0	.0	.0	.0
PULMONARY DISEASE	0	0	0	0	0	0	.0	.0	.0
RADIOLOGY	0	0	0	0	0	0	.0	.0	.0
SPEECH PATHOLOGY/AUDIOLOGY	535	617	783	777	878	963	10.4	9.7	10.3
SURGERY	0	0	0	0	0	0	.0	.0	.0
VETERINARY SCIENCES	12	21	16	12	12	22	.0	83.3	10.6
CLINICAL MEDICINE, N.E.C.	0	4	37	37	71	62	**	-12.7	**
HEALTH RELATED, N.E.C.	639	664	568	610	737	776	2.9	5.3	3.3
PSYCHOLOGY	4,398	4,162	4,443	5,127	5,099	5,227	3.0	2.5	2.9
SOCIAL SCIENCES	4,943	5,170	6,579	5,505	5,029	4,403	-.3	-12.4	-1.9
AGRICULTURAL ECONOMICS	12	13	18	18	35	23	23.9	-34.3	11.5
ANTHROPOLOGY	153	143	168	127	140	79	-1.8	-43.6	-10.4
ECONOMICS (EXCEPT AGRICULTURAL)	358	376	344	236	326	298	-1.9	-8.6	-3.0
GEOGRAPHY	235	241	196	184	198	188	-3.4	-5.1	-3.7
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	.0	.0	.0
LINGUISTICS	57	50	39	21	26	14	-14.5	-46.2	-20.9
POLITICAL SCIENCE	1,511	1,592	2,044	1,620	1,560	1,614	.6	3.5	1.1
SOCIOLOGY	375	457	432	465	331	283	-2.5	-14.5	-4.6
SOCIOLOGY/ANTHROPOLOGY	109	108	80	55	56	51	-12.5	-8.9	-11.9
SOCIAL SCIENCES, N.E.C.	2,133	2,190	3,258	2,779	2,357	1,853	2.0	-21.4	-2.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-7. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	10,954	11,370	12,428	13,013	12,443	13,076	2.6	5.1	3.0
ENGINEERING	433	512	572	680	674	801	9.3	18.8	10.8
AEROSPACE	15	6	2	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	17	17	14	**	-17.6	**
CHEMICAL	12	11	18	20	9	14	-5.6	55.6	2.6
CIVIL	72	82	114	135	87	150	3.9	72.4	13.0
ELECTRICAL	37	33	85	81	139	141	30.3	1.4	25.0
ENGINEERING SCIENCE	3	2	6	5	7	5	18.5	-28.6	8.9
INDUSTRIAL	52	45	61	40	119	137	18.0	15.1	17.5
MECHANICAL	25	27	62	41	34	31	6.3	-8.8	3.7
METALLURGICAL/MATERIALS	7	7	10	14	18	18	20.8	.0	17.0
MINING	5	11	7	6	7	17	7.0	142.9	22.6
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	1	3	3	**	.0	**
ENGINEERING, N.E.C.	205	288	207	320	234	271	2.7	15.8	4.8
PHYSICAL SCIENCES	515	560	605	572	535	583	.8	9.0	2.1
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	307	349	430	383	394	444	5.1	12.7	6.3
PHYSICS	157	157	125	150	113	107	-6.4	-5.3	-6.2
PHYSICAL SCIENCES, N.E.C.	51	54	50	39	28	32	-11.3	14.3	-7.5
ENVIRONMENTAL SCIENCES	663	516	491	505	661	491	-.7	-23.4	-4.9
ATMOSPHERIC SCIENCES	0	0	4	3	12	6	**	-50.0	**
GEOSCIENCES	163	174	181	210	258	184	9.6	-28.7	2.0
OCEANOGRAPHY	27	35	31	23	38	33	7.1	-13.2	3.4
ENVIRONMENTAL SCIENCES, N.E.C.	473	307	275	269	333	268	-6.8	-19.5	-9.0
MATHEMATICAL/COMPUTER SCIENCES	758	800	696	873	797	1,080	1.0	35.5	6.1
COMPUTER SCIENCE	154	186	202	376	336	656	16.9	95.2	27.3
MATHEMATICS AND APPLIED MATHEMATICS	570	593	480	486	455	420	-4.4	-7.7	-5.0
STATISTICS	34	21	14	11	6	4	-29.3	-33.3	-30.0
LIFE SCIENCES	2,991	3,410	3,470	3,808	3,740	3,863	4.6	3.3	4.4
AGRICULTURAL SCIENCES	216	246	251	435	350	373	10.1	6.6	9.5
BIOLOGICAL SCIENCES	1,936	2,207	2,120	2,211	2,021	2,029	.9	.4	.8
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	17	24	19	21	11	0	-8.3	-100.0	-100.0
BIOLOGY	1,519	1,837	1,762	1,862	1,581	1,646	.8	4.1	1.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	50	74	37	17	13	12	-23.6	-7.7	-21.2
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	10	10	7	**	-30.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	23	44	46	19	56	46	19.5	-17.9	12.2
NUTRITION	78	66	109	75	100	83	6.3	-12.3	3.0
PATHOLOGY	214	114	104	178	201	193	-1.2	-4.0	-1.7
PHARMACOLOGY	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	34	45	36	24	30	16	-2.5	-46.7	-11.8
BIOSCIENCES, N.E.C.	1	3	7	5	13	16	67.0	23.1	58.7
HEALTH SCIENCES	839	957	1,098	1,162	1,369	1,461	10.3	6.7	9.7
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0
NURSING	80	68	148	131	130	204	10.2	56.9	16.9
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	10	15	15	15	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	18	21	20	33	25	30	6.8	20.0	8.9
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	391	450	601	594	695	811	12.2	16.7	12.9
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	0	4	37	36	40	33	**	-17.5	**
HEALTH RELATED, N.E.C.	350	414	283	353	464	368	5.8	-20.7	.8
PSYCHOLOGY	3,041	2,833	3,055	3,226	3,248	3,479	1.3	7.1	2.3
SOCIAL SCIENCES	2,553	2,739	3,539	3,349	2,808	2,779	1.9	-1.0	1.4
AGRICULTURAL ECONOMICS	12	13	18	18	35	23	23.9	-34.3	11.5
ANTHROPOLOGY	151	142	166	126	140	78	-1.5	-44.3	-10.4
ECONOMICS (EXCEPT AGRICULTURAL)	272	287	285	182	200	183	-6.0	-8.5	-6.4
GEOGRAPHY	235	241	196	184	198	188	-3.4	-5.1	-3.7
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	55	48	36	21	26	14	-13.9	-46.2	-20.4
POLITICAL SCIENCE	837	991	1,190	897	971	1,073	3.0	10.5	4.2
SOCIOLOGY	235	275	300	298	210	267	-2.2	27.1	2.2
SOCIOLOGY/ANTHROPOLOGY	95	93	68	43	45	40	-13.9	-11.1	-13.4
SOCIAL SCIENCES, N.E.C.	661	649	1,280	1,580	983	913	8.3	-7.1	5.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-8. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	5,419	5,453	6,297	5,964	6,034	5,823	2.2	-3.5	1.2
ENGINEERING	297	221	318	369	452	494	8.8	9.3	8.9
AEROSPACE	5	6	7	1	3	3	-9.7	.0	-8.2
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	1	2	0	2	0	0	-100.0	**	-100.0
CHEMICAL	23	25	20	36	43	46	13.3	7.0	12.2
CIVIL	42	32	34	46	74	77	12.0	4.1	10.6
ELECTRICAL	55	51	107	107	112	115	15.3	2.7	13.1
ENGINEERING SCIENCE	0	3	3	3	10	11	**	10.0	**
INDUSTRIAL	57	58	70	77	77	73	6.2	-5.2	4.2
MECHANICAL	52	31	46	50	77	54	8.2	-29.9	.6
METALLURGICAL/MATERIALS	0	0	0	1	0	0	**	**	**
MINING	0	0	0	0	0	0	0	0	0
NUCLEAR	6	0	5	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	56	13	26	46	56	115	.0	105.4	12.7
PHYSICAL SCIENCES	127	111	162	172	121	137	-1.0	13.2	1.3
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	95	78	122	134	103	121	1.6	17.5	4.1
PHYSICS	31	32	34	34	18	15	-10.3	-16.7	-11.4
PHYSICAL SCIENCES, N.E.C.	1	1	6	4	0	1	-100.0	**	.0
ENVIRONMENTAL SCIENCES	25	26	37	42	63	142	20.3	125.4	33.6
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0
GEOSCIENCES	3	2	0	0	0	0	-100.0	**	-100.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	22	24	37	42	63	142	23.4	125.4	36.5
MATHEMATICAL/COMPUTER SCIENCES	285	336	263	439	406	522	7.3	28.6	10.6
COMPUTER SCIENCE	225	273	200	399	368	492	10.3	33.7	13.9
MATHEMATICS AND APPLIED MATHEMATICS	60	61	61	39	38	30	-8.7	-21.1	-10.9
STATISTICS	0	2	2	1	0	0	**	**	**
LIFE SCIENCES	938	999	1,089	885	920	1,156	-.4	25.7	3.5
AGRICULTURAL SCIENCES	30	31	32	23	24	52	-4.4	116.7	9.6
BIOLOGICAL SCIENCES	329	381	366	319	244	255	-5.8	4.5	-4.2
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	16	22	14	28	21	19	5.6	-9.5	2.9
BIOLOGY	254	267	204	224	146	136	-10.5	-6.8	-9.9
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	1	1	1	1	1	1	.0	.0	.0
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	1	**	**	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	24	32	38	43	48	47	14.9	-2.1	11.9
MICROBIOLOGY	8	39	73	4	7	5	-2.6	-28.6	-7.5
NUTRITION	0	0	0	0	3	1	**	-66.7	**
PATHOLOGY	2	1	4	0	2	2	.0	.0	.0
PHARMACOLOGY	0	0	1	2	2	1	**	-50.0	**
PHYSIOLOGY	12	5	15	0	0	0	-100.0	**	-100.0
ZOOLOGY	7	6	6	5	6	5	-3.0	-16.7	-5.5
BIOSCIENCES, N.E.C.	5	8	10	12	8	37	9.9	362.5	39.6
HEALTH SCIENCES	579	587	691	563	652	849	2.4	30.2	6.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	24	21	26	0	18	25	**	38.9	**
ENDOCRINOLOGY	0	0	0	0	0	0	-100.0	**	-100.0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0
NURSING	110	128	180	64	113	198	.5	75.2	10.3
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	2	4	0	1	**	**	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0	0	0	0
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	144	167	182	183	183	152	4.9	-16.9	.9
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	12	21	16	12	12	22	.0	83.3	10.6
CLINICAL MEDICINE, N.E.C.	0	0	0	1	31	29	**	-6.5	**
HEALTH RELATED, N.E.C.	289	250	285	257	273	408	-1.1	49.5	5.9
PSYCHOLOGY	1,357	1,329	1,388	1,901	1,851	1,748	6.4	-5.6	4.3
SOCIAL SCIENCES	2,390	2,431	3,040	2,156	2,221	1,624	-1.5	-26.9	-6.2
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	0	0
ANTHROPOLOGY	2	1	2	1	0	1	-100.0	**	-10.9
ECONOMICS (EXCEPT AGRICULTURAL)	86	89	59	54	126	115	7.9	-8.7	5.0
GEOGRAPHY	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	2	2	3	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	674	601	854	723	589	541	-2.7	-8.1	-3.6
SOCIOLOGY	140	182	132	167	121	16	-2.9	-86.8	-30.3
SOCIOLOGY/ANTHROPOLOGY	14	15	12	12	11	11	-4.7	.0	-3.9
SOCIAL SCIENCES, N.E.C.	1,472	1,541	1,978	1,199	1,374	940	-1.4	-31.6	-7.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-9. -- MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-81

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	10,690	11,317	11,176	10,093	9,851	-1.4	-2.4	-1.6
ENGINEERING	692	835	949	1,040	1,188	10.7	14.2	11.4
AEROSPACE	12	9	1	3	3	-29.3	.0	-24.2
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	2	0	19	15	13	65.5	-13.3	45.4
CHEMICAL	35	35	51	50	54	9.3	8.0	9.1
CIVIL	100	132	149	138	210	8.4	52.2	16.0
ELECTRICAL	82	187	184	242	243	31.1	.4	24.3
ENGINEERING SCIENCE	5	9	8	15	15	31.6	.0	24.6
INDUSTRIAL	102	128	103	173	185	14.1	6.9	12.6
MECHANICAL	55	104	88	109	81	18.6	-25.7	8.0
METALLURGICAL/MATERIALS	5	8	14	17	15	35.8	-11.8	24.6
MINING	10	7	6	6	15	-12.0	150.0	8.4
NUCLEAR	0	5	0	0	0	**	**	**
PETROLEUM	0	0	1	3	3	**	.0	**
ENGINEERING, N.E.C.	284	211	325	269	351	-1.3	30.5	4.3
PHYSICAL SCIENCES	538	604	581	486	528	-2.5	8.6	-.4
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	331	429	398	350	395	1.4	12.9	3.6
PHYSICS	168	131	151	113	109	-9.4	-3.5	-8.3
PHYSICAL SCIENCES, N.E.C.	39	44	32	23	24	-12.4	4.3	-9.3
ENVIRONMENTAL SCIENCES	426	432	443	521	443	5.2	-15.0	.8
ATMOSPHERIC SCIENCES	0	3	2	12	6	**	-50.0	**
GEOSCIENCES	151	160	181	190	137	5.9	-27.9	-1.9
OCEANOGRAPHY	24	20	14	26	33	2.0	26.9	6.6
ENVIRONMENTAL SCIENCES, N.E.C.	251	249	246	293	267	3.9	-8.9	1.2
MATHEMATICAL/COMPUTER SCIENCES	825	727	998	871	1,107	1.4	27.1	6.1
COMPUTER SCIENCE	378	323	638	527	830	8.7	57.5	17.0
MATHEMATICS AND APPLIED MATHEMATICS	428	392	349	339	274	-5.7	-19.2	-8.5
STATISTICS	19	12	11	5	3	-28.4	-40.0	-30.9
LIFE SCIENCES	2,537	2,524	2,594	2,237	2,253	-3.1	.7	-2.3
AGRICULTURAL SCIENCES	225	235	416	324	321	9.5	-.9	7.4
BIOLOGICAL SCIENCES	1,748	1,671	1,629	1,377	1,353	-5.8	-1.7	-5.0
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	32	27	37	21	0	-10.0	-100.0	-100.0
BIOLOGY	1,482	1,387	1,397	1,152	1,159	-6.1	.6	-4.8
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	47	29	18	10	7	-32.1	-30.0	-31.7
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	7	8	3	**	-62.5	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	0	0	0	4	3	-5.4	-25.0	-9.7
MICROBIOLOGY	5	2	0	0	0	0	0	0
NUTRITION	64	95	13	35	12	-14.0	-65.7	-28.5
PATHOLOGY	24	27	18	34	40	10.7	11.1	10.8
PHARMACOLOGY	55	47	101	81	84	10.2	3.7	8.8
PHYSIOLOGY	0	1	2	1	1	**	.0	**
ZOOLOGY	5	15	0	0	0	-100.0	**	-100.0
BIOSCIENCES, N.E.C.	31	32	24	19	15	-11.5	-21.1	-13.5
	3	9	12	10	29	35.1	190.0	57.4
HEALTH SCIENCES	564	618	549	536	579	-1.3	8.0	.5
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	11	12	**	9.1	**
DENTISTRY	21	26	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	18	18	6	**	-66.7	**
NURSING	32	46	11	9	28	-27.2	211.1	-2.6
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	9	14	10	16	**	60.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	7	10	15	8	6	3.4	-25.0	-3.0
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	89	149	105	84	109	-1.4	29.8	4.1
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	15	11	9	12	15	-5.4	25.0	.0
CLINICAL MEDICINE, N.E.C.	2	15	12	21	21	80.0	.0	60.0
HEALTH RELATED, N.E.C.	398	352	365	363	366	-2.3	.8	-1.7
PSYCHOLOGY	2,390	2,347	2,666	2,157	1,912	-2.5	-11.4	-4.4
SOCIAL SCIENCES	3,282	3,848	2,945	2,781	2,420	-4.1	-13.0	-5.9
AGRICULTURAL ECONOMICS	13	17	15	30	18	23.3	-40.0	6.7
ANTHROPOLOGY	89	90	62	76	42	-3.9	-44.7	-13.9
ECONOMICS (EXCEPT AGRICULTURAL)	311	282	187	256	230	-4.7	-10.2	-5.9
GEOGRAPHY	183	147	120	145	134	-5.7	-7.6	-6.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	26	23	15	12	7	-17.4	-41.7	-23.1
POLITICAL SCIENCE	1,151	1,549	1,079	1,045	1,007	-2.4	-3.6	-2.6
SOCIOLOGY	257	247	231	133	130	-15.2	-2.3	-12.7
SOCIOLOGY/ANTHROPOLOGY	64	46	30	23	22	-22.4	-4.3	-19.2
SOCIAL SCIENCES, N.E.C.	1,188	1,447	1,206	1,061	830	-2.8	-21.8	-6.9

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-10. -- FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-81

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	6,133	7,408	7,801	8,384	9,048	8.1	7.9	8.1
ENGINEERING	41	55	100	86	107	20.3	24.4	21.1
AEROSPACE	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	2	1	**	-50.0	**
CHEMICAL	1	3	5	2	6	18.9	200.0	43.1
CIVIL	14	16	32	23	17	13.2	-26.1	4.0
ELECTRICAL	2	5	4	9	13	45.6	44.4	45.4
ENGINEERING SCIENCE	0	0	0	2	1	**	-50.0	**
INDUSTRIAL	1	3	14	23	25	119.0	8.7	90.4
MECHANICAL	3	4	3	2	4	-9.6	100.0	5.9
METALLURGICAL/MATERIALS	2	2	1	1	3	-15.9	200.0	8.4
MINING	1	0	0	1	2	.0	100.0	14.9
NUCLEAR	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	17	22	41	21	35	5.4	66.7	15.5
PHYSICAL SCIENCES	133	163	163	170	192	6.3	12.9	7.6
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	96	123	119	147	170	11.2	15.6	12.1
PHYSICS	21	28	33	18	13	-3.8	-27.8	-9.1
PHYSICAL SCIENCES, N.E.C.	16	12	11	5	9	-25.2	80.0	-10.9
ENVIRONMENTAL SCIENCES	116	96	104	183	190	12.1	3.8	10.4
ATMOSPHERIC SCIENCES	0	1	1	0	0	**	**	**
GEOSCIENCES	25	21	29	68	47	28.4	-30.9	13.5
OCEANOGRAPHY	11	11	9	12	0	2.2	-100.0	-100.0
ENVIRONMENTAL SCIENCES, N.E.C.	80	63	65	103	143	6.5	38.8	12.3
MATHEMATICAL/COMPUTER SCIENCES	311	232	314	332	495	1.6	49.1	9.7
COMPUTER SCIENCE	81	79	137	177	318	21.6	79.7	31.5
MATHEMATICS AND APPLIED MATHEMATICS	226	149	176	154	176	-9.1	14.3	-4.9
STATISTICS	4	4	1	1	1	-29.3	.0	-24.2
LIFE SCIENCES	1,872	2,035	2,099	2,423	2,766	6.7	14.2	8.1
AGRICULTURAL SCIENCES	52	48	42	50	104	-1.0	108.0	14.9
BIOLOGICAL SCIENCES	840	815	901	888	931	1.4	4.8	2.1
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	14	6	12	11	19	-5.9	72.7	6.3
BIOLOGY	622	579	689	575	623	-1.9	8.3	*
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	28	9	0	4	6	-38.5	50.0	-26.5
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	3	2	5	**	150.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	27	36	43	44	44	13.0	.0	10.3
MICROBIOLOGY	19	24	10	28	39	10.2	39.3	15.5
NUTRITION	42	82	57	73	54	14.8	-26.0	5.2
PATHOLOGY	60	61	77	122	111	19.4	-9.0	13.1
PHARMACOLOGY	0	0	0	1	0	**	-100.0	**
PHYSIOLOGY	0	0	0	0	0	0	0	0
ZOOLOGY	20	10	5	17	6	-4.0	-64.7	-21.4
BIOSCIENCES, N.E.C.	8	8	5	11	24	8.3	118.2	24.6
HEALTH SCIENCES	980	1,172	1,156	1,485	1,731	10.9	16.6	12.1
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	7	13	**	85.7	**
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	4	4	8	**	100.0	**
NURSING	164	282	184	234	374	9.3	59.8	17.9
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	3	5	5	0	**	-100.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	14	10	18	17	24	5.0	41.2	11.4
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	528	634	672	794	854	10.7	7.6	10.1
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	6	5	3	0	7	-100.0	**	3.1
CLINICAL MEDICINE, N.E.C.	2	22	25	50	41	123.6	-18.0	83.0
HEALTH RELATED, N.E.C.	266	216	245	374	410	8.9	9.6	9.0
PSYCHOLOGY	1,772	2,096	2,461	2,942	3,315	13.5	12.7	13.3
SOCIAL SCIENCES	1,888	2,731	2,560	2,248	1,983	4.5	-11.8	1.0
AGRICULTURAL ECONOMICS	0	1	3	5	5	**	.0	**
ANTHROPOLOGY	54	78	65	64	37	4.3	-42.2	-7.3
ECONOMICS (EXCEPT AGRICULTURAL)	65	62	49	70	68	1.9	-2.9	.9
GEOGRAPHY	58	49	64	53	54	-2.2	1.9	-1.4
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	24	16	6	14	7	-12.6	-50.0	-21.8
POLITICAL SCIENCE	441	495	541	515	607	4.0	17.9	6.6
SOCIOLOGY	200	185	234	198	153	-.3	-22.7	-5.2
SOCIOLOGY/ANTHROPOLOGY	44	34	25	33	29	-6.9	-12.1	-8.0
SOCIAL SCIENCES, N.E.C.	1,002	1,811	1,573	1,296	1,023	6.6	-21.1	.4

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-11. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY FEDERAL SOURCES IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-81

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	1,797	2,185	1,579	1,563	1,229	-3.4	-21.4	-7.3
ENGINEERING	107	100	54	81	51	-6.7	-37.0	-13.8
AEROSPACE	1	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0
CHEMICAL	1	0	0	0	0	-100.0	**	-100.0
CIVIL	41	38	29	15	8	-22.2	-46.7	-27.9
ELECTRICAL	11	21	3	34	14	32.6	-58.8	4.9
ENGINEERING SCIENCE	1	1	2	4	2	41.4	-50.0	14.9
INDUSTRIAL	14	7	0	8	2	-13.1	-75.0	-32.2
MECHANICAL	10	13	0	0	0	-100.0	**	-100.0
METALLURGICAL/MATERIALS	1	4	5	3	7	31.6	133.3	47.6
MINING	5	3	2	1	3	-33.1	200.0	-9.7
NUCLEAR	0	2	0	0	0	**	**	**
PETROLEUM	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	22	11	13	16	15	-7.7	-6.3	-7.4
PHYSICAL SCIENCES	34	54	78	52	57	11.2	9.6	10.9
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	26	42	71	48	51	16.6	6.3	14.4
PHYSICS	8	8	6	4	5	-15.9	25.0	-9.0
PHYSICAL SCIENCES, N.E.C.	0	4	1	0	1	**	**	**
ENVIRONMENTAL SCIENCES	48	62	58	73	45	11.1	-38.4	-1.3
ATMOSPHERIC SCIENCES	0	0	2	1	0	**	-100.0	**
GEOSCIENCES	27	20	14	22	16	-5.0	-27.3	-9.9
OCEANOGRAPHY	0	0	3	8	0	**	-100.0	**
ENVIRONMENTAL SCIENCES, N.E.C.	21	42	39	42	29	18.9	-31.0	6.7
MATHEMATICAL/COMPUTER SCIENCES	56	53	24	100	78	15.6	-22.0	6.9
COMPUTER SCIENCE	28	29	15	74	64	27.5	-13.5	18.0
MATHEMATICS AND APPLIED MATHEMATICS	28	23	8	26	14	-1.8	-46.2	-12.9
STATISTICS	0	1	1	0	0	**	**	**
LIFE SCIENCES	472	530	628	618	603	7.0	-2.4	5.0
AGRICULTURAL SCIENCES	56	30	41	39	20	-8.6	-48.7	-18.6
BIOLOGICAL SCIENCES	188	197	266	220	245	4.0	11.4	5.4
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	1	2	9	2	0	18.9	-100.0	-100.0
BIOLOGY	143	168	203	160	180	2.8	12.5	4.7
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	7	2	0	1	0	-38.5	-100.0	-100.0
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	1	**	**	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0
MICROBIOLOGY	5	3	8	2	2	-20.5	.0	-16.7
NUTRITION	20	16	16	19	29	-1.3	52.6	7.7
PATHOLOGY	9	3	27	33	0	38.4	-100.0	-100.0
PHARMACOLOGY	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0
ZOOLOGY	0	1	0	1	0	**	-100.0	**
BIOSCIENCES, N.E.C.	3	2	3	2	33	-9.6	1550.0	61.5
HEALTH SCIENCES	228	303	321	359	338	12.0	-5.8	8.2
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	1	**	**	**
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0
NURSING	44	62	101	104	154	24.0	48.1	28.5
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	3	11	11	0	**	-100.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	4	2	0	1	**	**	**
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	121	163	86	112	75	-1.9	-33.0	-9.1
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	3	3	9	0	16	-100.0	**	39.8
CLINICAL MEDICINE, N.E.C.	0	1	1	0	5	**	**	**
HEALTH RELATED, N.E.C.	60	67	111	132	86	21.8	-34.8	7.5
PSYCHOLOGY	235	325	165	200	159	-4.0	-20.5	-7.5
SOCIAL SCIENCES	845	1,061	572	439	236	-15.1	-46.2	-22.5
AGRICULTURAL ECONOMICS	0	0	1	25	16	**	-36.0	**
ANTHROPOLOGY	18	21	16	1	1	-51.5	.0	-43.9
ECONOMICS (EXCEPT AGRICULTURAL)	31	25	2	3	7	-44.2	133.3	-25.7
GEOGRAPHY	16	3	8	14	5	-3.3	-64.3	-20.8
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	3	1	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	255	270	153	168	71	-9.9	-57.7	-22.6
SOCIOLOGY	81	22	6	18	5	-31.3	-72.2	-42.7
SOCIOLOGY/ANTHROPOLOGY	22	11	15	9	0	-20.0	-100.0	-100.0
SOCIAL SCIENCES, N.E.C.	419	708	371	201	131	-16.8	-34.8	-20.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-12. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY INSTITUTIONAL SOURCES IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-81

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	3,531	3,819	3,866	3,773	3,764	1.7	-0.2	1.3
ENGINEERING	81	126	255	220	259	28.4	17.7	26.2
AEROSPACE	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	1	5	1	**	-80.0	**
CHEMICAL	8	7	24	17	5	20.7	-70.6	-9.0
CIVIL	8	25	32	40	27	49.5	-32.5	27.5
ELECTRICAL	7	26	33	33	79	47.4	139.4	62.4
ENGINEERING SCIENCE	1	4	3	5	0	49.5	-100.0	-100.0
INDUSTRIAL	23	22	54	28	17	5.0	-39.3	-5.9
MECHANICAL	9	17	20	37	19	42.4	-48.6	16.1
METALLURGICAL/MATERIALS	1	1	3	4	4	41.4	.0	32.0
MINING	3	3	2	2	4	-9.6	100.0	5.9
NUCLEAR	0	2	0	0	0	**	**	**
PETROLEUM	0	0	1	1	3	**	200.0	**
ENGINEERING, N.E.C.	21	19	82	48	100	23.0	108.3	36.6
PHYSICAL SCIENCES	397	413	434	413	415	1.0	.5	.9
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	258	285	291	308	323	4.5	4.9	4.6
PHYSICS	124	108	130	98	83	-5.7	-15.3	-7.7
PHYSICAL SCIENCES, N.E.C.	15	20	13	7	9	-17.3	28.6	-9.7
ENVIRONMENTAL SCIENCES	153	152	161	175	139	3.4	-20.6	-1.9
ATMOSPHERIC SCIENCES	0	2	1	1	1	**	.0	**
GEOSCIENCES	87	88	78	88	82	.3	-6.8	-1.2
OCEANOGRAPHY	11	13	14	16	17	9.8	6.3	9.1
ENVIRONMENTAL SCIENCES, N.E.C.	55	49	68	70	39	6.2	-44.3	-6.6
MATHEMATICAL/COMPUTER SCIENCES	353	303	393	361	342	.6	-5.3	-.6
COMPUTER SCIENCE	82	35	144	111	90	7.9	-18.9	1.9
MATHEMATICS AND APPLIED MATHEMATICS	271	266	240	246	248	-2.4	.8	-1.8
STATISTICS	0	2	9	4	4	**	.0	**
LIFE SCIENCES	1,243	1,253	1,222	1,186	1,167	-1.2	-1.6	-1.3
AGRICULTURAL SCIENCES	29	54	53	40	40	8.4	.0	6.6
BIOLOGICAL SCIENCES	1,039	943	914	840	842	-5.2	.2	-4.1
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	25	21	24	20	0	-5.4	-100.0	-100.0
BIOLOGY	909	827	827	696	771	-6.5	10.8	-3.2
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	28	14	12	11	10	-20.8	-9.1	-18.6
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	7	7	4	**	-42.9	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	0	0	0	12	16	**	33.3	**
MICROBIOLOGY	35	33	2	27	14	-6.3	-48.1	-16.7
NUTRITION	17	15	9	11	3	-10.3	-72.7	-29.3
PATHOLOGY	1	1	12	18	1	106.0	-94.4	.0
PHARMACOLOGY	0	1	1	1	1	**	.0	**
PHYSIOLOGY	2	3	0	0	0	-100.0	**	-100.0
ZOOLOGY	18	22	20	27	17	10.7	-37.0	-1.1
BIOSCIENCES, N.E.C.	4	6	0	10	5	25.7	-50.0	4.6
HEALTH SCIENCES	175	256	255	306	285	15.0	-6.9	10.2
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	2	**	**	**
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	4	4	6	**	50.0	**
NURSING	11	19	17	30	20	28.5	-33.3	12.7
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	4	2	1	0	**	-100.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	4	2	3	4	**	33.3	**
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	132	176	180	164	165	5.6	.6	4.6
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	2	3	1	0	0	-100.0	**	-100.0
CLINICAL MEDICINE, N.E.C.	0	2	2	17	19	**	11.8	**
HEALTH RELATED, N.E.C.	30	48	47	87	69	30.5	-20.7	18.1
PSYCHOLOGY	681	879	740	706	828	.9	17.3	4.0
SOCIAL SCIENCES	623	693	661	712	614	3.4	-13.8	-.3
AGRICULTURAL ECONOMICS	5	6	2	0	1	-100.0	**	-27.5
ANTHROPOLOGY	23	16	21	34	24	10.3	-29.4	.9
ECONOMICS (EXCEPT AGRICULTURAL)	59	63	54	45	47	-6.5	4.4	-4.4
GEOGRAPHY	76	94	62	77	64	.3	-16.9	-3.4
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	5	12	8	8	3	12.5	-62.5	-9.7
POLITICAL SCIENCE	187	205	210	252	220	7.7	-12.7	3.3
SOCIOLOGY	68	92	107	91	88	7.6	-3.3	5.3
SOCIOLOGY/ANTHROPOLOGY	29	23	12	13	17	-18.2	30.8	-10.1
SOCIAL SCIENCES, N.E.C.	171	182	185	192	150	2.9	-21.9	-2.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-13. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY OTHER OUTSIDE SOURCES IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-81

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	653	838	956	732	783	2.9	7.0	3.7
ENGINEERING	44	54	134	134	229	32.1	70.9	39.1
AEROSPACE	3	0	1	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	2	0	0	**	**	**
CHEMICAL	4	13	8	10	48	25.7	380.0	64.4
CIVIL	9	2	12	29	39	34.0	34.5	34.1
ELECTRICAL	7	24	32	52	62	65.1	19.2	54.7
ENGINEERING SCIENCE	0	2	2	1	0	**	-100.0	**
INDUSTRIAL	5	1	28	2	8	-20.5	300.0	9.9
MECHANICAL	1	2	10	28	33	130.0	17.9	101.2
METALLURGICAL/MATERIALS	1	0	4	0	5	-100.0	**	38.0
MINING	2	0	1	3	6	10.7	100.0	24.6
NUCLEAR	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	12	10	34	9	28	-6.9	211.1	18.5
PHYSICAL SCIENCES	27	47	38	34	55	5.9	61.8	15.3
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	9	44	31	16	55	15.5	243.8	43.6
PHYSICS	16	3	5	5	0	-25.2	-100.0	-100.0
PHYSICAL SCIENCES, N.E.C.	2	0	2	13	0	59.7	-100.0	-100.0
ENVIRONMENTAL SCIENCES	24	28	33	47	69	18.3	46.8	23.5
ATMOSPHERIC SCIENCES	0	0	0	0	1	**	**	**
GEOSCIENCES	4	13	13	10	8	25.7	-20.0	14.9
OCEANOGRAPHY	5	0	1	11	0	21.8	-100.0	-100.0
ENVIRONMENTAL SCIENCES, N.E.C.	15	15	19	26	60	14.7	130.8	32.0
MATHEMATICAL/COMPUTER SCIENCES	44	39	52	38	65	-3.6	71.1	8.1
COMPUTER SCIENCE	29	32	45	36	58	5.6	61.1	14.9
MATHEMATICS AND APPLIED MATHEMATICS	13	7	6	2	7	-37.4	250.0	-11.6
STATISTICS	2	0	1	0	0	-100.0	**	-100.0
LIFE SCIENCES	194	177	189	178	138	-2.1	-22.5	-6.6
AGRICULTURAL SCIENCES	6	4	18	36	23	56.5	-36.1	30.8
BIOLOGICAL SCIENCES	93	76	85	81	68	-3.4	-16.0	-6.1
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	0	0	5	5	0	**	-100.0	**
BIOLOGY	61	50	55	69	57	3.1	-17.4	-1.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	3	1	0	0	0	-100.0	**	-100.0
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	15	19	14	0	2	-100.0	**	-33.2
MICROBIOLOGY	0	0	0	0	0	0	0	0
NUTRITION	2	6	4	2	4	0	100.0	14.9
PATHOLOGY	3	0	5	0	0	-100.0	**	-100.0
PHARMACOLOGY	0	0	0	1	0	**	-100.0	**
PHYSIOLOGY	0	0	0	0	0	0	0	0
ZOOLOGY	6	0	0	0	3	-100.0	**	-12.9
BIOSCIENCES, N.E.C.	3	0	0	4	2	7.5	-50.0	-7.8
HEALTH SCIENCES	95	97	86	61	47	-10.5	-23.0	-13.1
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	3	3	0	**	-100.0	**
NURSING	2	8	5	6	6	31.6	0	24.6
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	1	0	0	0	**	**	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	5	3	5	0	0	-100.0	**	-100.0
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	5	33	52	25	20	49.5	-20.0	32.0
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	1	0	0	6	**	**	**
CLINICAL MEDICINE, N.E.C.	2	15	1	15	10	65.5	-33.3	38.0
HEALTH RELATED, N.E.C.	81	36	20	12	5	-38.0	-58.3	-42.7
PSYCHOLOGY	84	185	132	75	25	-2.8	-66.7	-21.5
SOCIAL SCIENCES	236	308	378	226	202	-1.1	-10.6	-3.1
AGRICULTURAL ECONOMICS	3	0	4	8	0	27.8	-100.0	-100.0
ANTHROPOLOGY	6	3	0	0	1	-100.0	**	-30.1
ECONOMICS (EXCEPT AGRICULTURAL)	40	36	40	68	30	14.2	-55.9	-5.6
GEOGRAPHY	11	1	0	3	11	-27.7	266.7	.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	0	0	0	7	0	**	-100.0	**
POLITICAL SCIENCE	70	129	103	91	100	6.8	9.9	7.4
SOCIOLOGY	5	9	18	3	1	-12.0	-66.7	-27.5
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	0	-100.0	**	-100.0
SOCIAL SCIENCES, N.E.C.	100	130	213	46	59	-17.6	28.3	-10.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-14. -- SELF-SUPPORTED FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-81

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	10,842	11,883	12,576	12,409	13,123	3.4	5.8	3.9
NGINEERING	501	610	606	691	756	8.4	9.4	8.6
AEROSPACE	8	9	0	3	3	-21.7	.0	-17.8
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	2	0	16	12	13	56.5	8.3	45.4
CHEMICAL	23	18	24	25	7	2.1	-72.0	-21.2
CIVIL	56	83	108	77	153	8.3	98.7	22.3
ELECTRICAL	59	121	120	132	101	22.3	-23.5	11.4
ENGINEERING SCIENCE	3	2	1	7	14	23.6	100.0	36.1
INDUSTRIAL	61	101	35	158	183	26.9	15.8	24.6
MECHANICAL	38	76	61	46	33	4.9	-28.3	-2.8
METALLURGICAL/MATERIALS	4	5	3	11	2	28.8	-81.8	-12.9
MINING	1	1	1	1	4	.0	300.0	32.0
NUCLEAR	0	1	0	0	0	**	**	**
PETROLEUM	0	0	0	2	0	**	-100.0	**
ENGINEERING, N.E.C.	246	193	237	217	243	-3.1	12.0	-.2
PHYSICAL SCIENCES	213	253	194	157	193	-7.3	22.9	-2.0
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	134	181	124	125	136	-1.7	8.8	.3
PHYSICS	41	40	43	24	34	-12.5	41.7	-3.7
PHYSICAL SCIENCES, N.E.C.	38	32	27	8	23	-32.3	187.5	-9.6
ENVIRONMENTAL SCIENCES	317	286	295	409	380	6.6	-7.1	3.7
ATMOSPHERIC SCIENCES	0	2	0	10	4	**	-60.0	**
GEOSCIENCES	58	60	105	138	78	24.2	-43.5	6.1
OCEANOGRAPHY	19	18	5	3	16	-37.0	433.3	-3.4
ENVIRONMENTAL SCIENCES, N.E.C.	240	206	185	258	282	1.8	9.3	3.3
MATHEMATICAL/COMPUTER SCIENCES	683	564	843	704	1,117	.8	58.7	10.3
COMPUTER SCIENCE	320	306	571	483	936	10.8	93.8	23.9
MATHEMATICS AND APPLIED MATHEMATICS	342	245	271	219	181	-10.5	-17.4	-11.9
STATISTICS	21	13	1	2	0	-44.4	-100.0	-100.0
LIFE SCIENCES	2,500	2,599	2,654	2,678	3,111	1.7	16.2	4.5
AGRICULTURAL SCIENCES	186	195	346	259	342	8.6	32.0	13.0
BIOLOGICAL SCIENCES	1,268	1,270	1,265	1,124	1,129	-3.0	.4	-2.3
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	20	10	11	5	19	-29.3	280.0	-1.0
BIOLOGY	991	921	1,001	802	774	-5.2	-3.5	-4.8
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	37	21	6	2	3	-51.8	50.0	-39.5
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	3	3	3	**	.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	17	19	27	36	29	20.6	-19.4	11.3
MICROBIOLOGY	43	83	13	34	35	-5.7	2.9	-4.0
NUTRITION	27	72	46	77	58	30.0	-24.7	16.5
PATHOLOGY	102	104	134	152	194	10.5	27.6	13.7
PHARMACOLOGY	0	0	1	0	0	**	**	**
PHYSIOLOGY	3	12	0	0	0	-100.0	**	-100.0
ZOOLOGY	27	19	9	8	1	-26.2	-87.5	-48.3
BIOSCIENCES, N.E.C.	1	9	14	5	13	49.5	160.0	67.0
HEALTH SCIENCES	1,046	1,134	1,043	1,295	1,640	5.5	26.6	9.4
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	18	22	**	22.2	**
DENTISTRY	21	26	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	15	15	8	**	-46.7	**
NURSING	139	239	72	103	222	-7.2	115.5	9.8
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	4	6	3	16	**	433.3	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	16	9	24	22	25	8.3	13.6	9.3
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	359	411	459	577	703	12.6	21.8	14.4
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	16	9	2	12	0	-6.9	-100.0	-100.0
CLINICAL MEDICINE, N.E.C.	2	19	33	39	28	110.1	-28.2	69.5
HEALTH RELATED, N.E.C.	493	417	432	506	616	.7	21.7	4.6
PSYCHOLOGY	3,162	3,054	4,090	4,118	4,215	6.8	2.4	5.9
SOCIAL SCIENCES	3,466	4,517	3,894	3,652	3,351	1.3	-8.2	-.7
AGRICULTURAL ECONOMICS	5	12	11	2	6	-20.5	200.0	3.7
ANTHROPOLOGY	96	128	90	105	53	2.3	-49.5	-11.2
ECONOMICS (EXCEPT AGRICULTURAL)	246	220	140	210	214	-3.9	1.9	-2.7
GEOGRAPHY	138	98	114	104	108	-6.8	3.8	-4.8
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	42	26	13	11	11	-28.5	.0	-23.5
POLITICAL SCIENCE	1,080	1,440	1,154	1,049	1,223	-.7	16.6	2.5
SOCIOLOGY	303	309	334	219	189	-7.8	-13.7	-9.0
SOCIOLOGY/ANTHROPOLOGY	56	46	28	34	34	-11.7	.0	-9.5
SOCIAL SCIENCES, N.E.C.	1,500	2,238	2,010	1,918	1,513	6.3	-21.1	.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-15. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY TYPE AND SOURCE OF MAJOR SUPPORT: 1979-81

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1979	1980	1981	1979-80	1980-81
TOTAL, ALL TYPES:					
TOTAL, ALL SOURCES	18,977	18,477	18,899	-2.6	2.3
FEDERAL, TOTAL	1,579	1,563	1,229	-1.0	-21.4
DEPT OF DEFENSE	40	47	49	17.5	4.3
DEPT OF HHS, TOTAL	627	566	363	-9.7	-35.9
NIH	171	197	152	15.2	-22.8
OTHER HHS	456	369	211	-19.1	-42.8
NSF	101	107	98	5.9	-8.4
ALL OTHER FEDERAL	811	843	719	3.9	-14.7
INSTITUTIONAL SUPPORT	3,866	3,773	3,764	-2.4	-.2
OTHER OUTSIDE SUPPORT, TOTAL	956	732	783	-23.4	7.0
ALL OTHER U.S.	665	414	434	-37.7	4.8
FOREIGN	291	318	349	9.3	9.7
SELF-SUPPORT	12,576	12,409	13,123	-1.3	5.8
FELLOWSHIPS AND TRAINEESHIPS:					
TOTAL, ALL SOURCES	1,234	1,149	997	-6.9	-13.2
FEDERAL, TOTAL	638	678	509	6.3	-24.9
DEPT OF DEFENSE	2	5	8	150.0	60.0
DEPT OF HHS, TOTAL	476	392	292	-17.6	-25.5
NIH	78	103	87	32.1	-15.5
OTHER HHS	398	289	205	-27.4	-29.1
NSF	47	69	38	46.8	-44.9
ALL OTHER FEDERAL	113	212	171	87.6	-19.3
INSTITUTIONAL SUPPORT	377	366	308	-2.9	-15.8
OTHER OUTSIDE SUPPORT, TOTAL	219	105	180	-52.1	71.4
ALL OTHER U.S.	175	69	56	-60.6	-18.8
FOREIGN	44	36	124	-18.2	244.4
SELF-SUPPORT	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:					
TOTAL, ALL SOURCES	1,016	1,140	1,180	12.2	3.5
FEDERAL, TOTAL	288	315	264	9.4	-16.2
DEPT OF DEFENSE	7	10	17	42.9	70.0
DEPT OF HHS, TOTAL	80	82	67	2.5	-18.3
NIH	75	76	63	1.3	-17.1
OTHER HHS	5	6	4	20.0	-33.3
NSF	43	25	24	-41.9	-4.0
ALL OTHER FEDERAL	158	198	156	25.3	-21.2
INSTITUTIONAL SUPPORT	663	698	831	5.3	19.1
OTHER OUTSIDE SUPPORT, TOTAL	65	127	85	95.4	-33.1
ALL OTHER U.S.	65	110	75	69.2	-31.8
FOREIGN	0	17	10	**	-41.2
SELF-SUPPORT	0	0	0	0	0
TEACHING ASSISTANTSHIPS:					
TOTAL, ALL SOURCES	2,445	2,272	2,241	-7.1	-1.4
FEDERAL, TOTAL	60	77	92	28.3	19.5
DEPT OF DEFENSE	0	0	0	0	0
DEPT OF HHS, TOTAL	11	13	0	18.2	-100.0
NIH	7	1	0	-85.7	-100.0
OTHER HHS	4	12	0	200.0	-100.0
NSF	9	7	3	-22.2	-57.1
ALL OTHER FEDERAL	40	57	89	42.5	56.1
INSTITUTIONAL SUPPORT	2,352	2,163	2,116	-8.0	-2.2
OTHER OUTSIDE SUPPORT, TOTAL	33	32	33	-3.0	3.1
ALL OTHER U.S.	33	32	33	-3.0	3.1
FOREIGN	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0
OTHER TYPES OF SUPPORT:					
TOTAL, ALL SOURCES	14,282	13,916	14,481	-2.6	4.1
FEDERAL, TOTAL	593	493	364	-16.9	-26.2
DEPT OF DEFENSE	31	32	24	3.2	-25.0
DEPT OF HHS, TOTAL	60	79	4	31.7	-94.9
NIH	11	17	2	54.5	-88.2
OTHER HHS	49	62	2	26.5	-96.8
NSF	2	6	33	200.0	450.0
ALL OTHER FEDERAL	500	376	303	-24.8	-19.4
INSTITUTIONAL SUPPORT	474	546	509	15.2	-6.8
OTHER OUTSIDE SUPPORT, TOTAL	639	468	485	-26.8	3.6
ALL OTHER U.S.	392	203	270	-48.2	33.0
FOREIGN	247	265	215	7.3	-18.9
SELF-SUPPORT	12,576	12,409	13,123	-1.3	5.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-16. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-77 AND 1979-81

DIVISION AND STATE	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL INSTITUTIONS	16,373	16,823	18,725	18,977	18,477	18,899	2.4	2.3	2.4
NEW ENGLAND	1,153	1,066	1,309	1,285	1,383	736	3.7	-46.8	-7.2
CONNECTICUT	217	169	242	365	461	438	16.3	-5.0	12.4
MAINE	0	0	0	0	0	0	**	**	**
MASSACHUSETTS	377	324	449	301	293	268	-4.9	-8.5	-5.5
NEW HAMPSHIRE	0	3	0	2	0	0	**	**	**
RHODE ISLAND	15	12	26	36	24	24	9.9	.0	8.1
VERMONT	544	558	592	581	605	6	2.1	-99.0	-52.8
MIDDLE ATLANTIC	2,228	2,346	2,666	2,272	1,576	1,803	-6.7	14.4	-3.5
NEW JERSEY	553	452	443	118	94	168	-29.8	78.7	-18.0
NEW YORK	1,292	1,541	1,750	1,702	969	1,024	-5.6	5.7	-3.8
PENNSYLVANIA	383	353	473	452	513	611	6.0	19.1	8.1
EAST NORTH CENTRAL	2,648	2,249	2,117	2,386	2,850	2,912	1.5	2.2	1.6
ILLINOIS	1,449	1,066	1,156	1,105	1,237	1,165	-3.1	-5.8	-3.6
INDIANA	58	64	49	59	46	87	-4.5	89.1	7.0
MICHIGAN	540	518	206	193	253	279	-14.1	10.3	-10.4
OHIO	331	299	368	697	919	966	22.7	5.1	19.5
WISCONSIN	270	302	338	332	395	415	7.9	5.1	7.4
WEST NORTH CENTRAL	811	928	915	946	941	885	3.0	-6.0	1.5
IOWA	153	172	132	37	37	39	-24.7	5.4	-20.4
KANSAS	311	316	380	341	303	354	-.5	16.8	2.2
MINNESOTA	198	218	169	324	312	286	9.5	-8.3	6.3
MISSOURI	147	21[illegible]	230	239	278	196	13.6	-29.5	4.9
NEBRASKA	2	[illegible]	4	5	11	10	40.6	-9.1	30.8
NORTH DAKOTA	0	0	0	0	0	0	**	**	**
SOUTH DAKOTA	0	0	0	0	0	0	**	**	**
SOUTH ATLANTIC	2,593	2,774	2,613	1,982	1,723	1,720	-7.8	-.2	-6.6
DELAWARE	0	0	0	0	0	0	**	**	**
DISTRICT OF COLUMBIA	60	67	61	59	60	72	.0	20.0	3.1
FLORIDA	878	970	990	705	462	421	-12.1	-8.9	-11.5
GEORGIA	398	447	450	198	185	199	-14.2	7.6	-10.9
MARYLAND	243	251	193	360	344	345	7.2	.3	6.0
NORTH CAROLINA	443	442	442	277	395	352	-2.3	-10.9	-3.8
SOUTH CAROLINA	59	55	46	47	26	37	-15.1	42.3	-7.5
VIRGINIA	347	410	332	332	251	257	-6.3	2.4	-4.9
WEST VIRGINIA	165	132	99	4	0	37	-100.0	**	-22.1
EAST SOUTH CENTRAL	734	819	957	1,116	906	976	4.3	7.7	4.9
ALABAMA	155	186	206	292	277	274	12.3	-1.1	10.0
KENTUCKY	264	232	386	328	323	305	4.1	-5.6	2.4
MISSISSIPPI	140	215	175	150	120	102	-3.0	-15.0	-5.1
TENNESSEE	175	186	190	346	186	295	1.2	58.6	9.1
WEST SOUTH CENTRAL	1,036	1,492	1,621	1,935	1,514	1,704	7.9	12.5	8.6
ARKANSAS	91	140	156	154	181	218	14.7	20.4	15.7
LOUISIANA	156	197	177	150	142	197	-1.9	38.7	4.0
OKLAHOMA	28	32	35	63	64	46	18.0	-28.1	8.6
TEXAS	761	1,123	1,253	1,568	1,127	1,243	8.2	10.3	8.5
MOUNTAIN	312	328	419	428	325	340	.8	4.6	1.4
ARIZONA	0	0	0	0	0	0	**	**	**
COLORADO	27	27	11	24	25	24	-1.5	-4.0	-1.9
IDAHO	0	0	0	0	0	0	**	**	**
MONTANA	13	24	21	29	38	43	23.9	13.2	22.1
NEVADA	161	161	249	108	72	92	-14.9	27.8	-8.9
NEW MEXICO	111	116	138	267	190	181	11.3	-4.7	8.5
UTAH	0	0	0	0	0	0	**	**	**
WYOMING	0	0	0	0	0	0	**	**	**
PACIFIC	4,858	4,812	6,051	6,609	7,233	7,808	8.3	7.9	8.2
ALASKA	0	4	38	37	52	52	**	.0	**
CALIFORNIA	4,495	4,402	5,513	5,962	6,650	7,097	8.1	6.7	7.9
HAWAII	0	0	0	0	0	0	**	**	**
OREGON	66	80	57	56	50	156	-5.4	212.0	15.4
WASHINGTON	297	326	443	554	481	503	10.1	4.6	9.2
OUTLYING AREAS	0	9	57	18	26	15	**	-42.3	**

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-17. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	27,618	29,422	33,172	33,737	30,829	32,932	2.2	6.8	3.0
ENGINEERING	3,051	3,127	3,829	4,061	3,750	4,696	4.2	25.2	7.5
AEROSPACE	14	16	13	4	4	4	-22.2	.0	-18.8
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	21	16	30	26	31	31	8.1	.0	6.7
CHEMICAL	88	104	100	134	81	154	-1.6	90.1	9.8
CIVIL	471	502	648	608	632	743	6.1	17.6	7.9
ELECTRICAL	621	631	858	783	814	999	5.6	22.7	8.2
ENGINEERING SCIENCE	43	34	108	157	146	196	27.7	34.2	28.8
INDUSTRIAL	591	559	657	483	478	628	-4.2	31.4	1.0
MECHANICAL	431	387	482	606	622	620	7.6	-.3	6.2
METALLURGICAL/MATERIALS	33	36	59	85	53	60	9.9	13.2	10.5
MINING	4	0	0	0	0	1	-100.0	**	-20.6
NUCLEAR	19	12	14	4	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	715	830	860	1,171	889	1,260	4.5	41.7	9.9
PHYSICAL SCIENCES	1,139	1,144	1,281	1,038	899	823	-4.6	-8.5	-5.3
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	825	820	860	696	613	562	-5.8	-8.3	-6.2
PHYSICS	236	239	301	196	189	179	-4.3	-5.3	-4.5
PHYSICAL SCIENCES, N.E.C.	78	85	120	146	97	82	4.5	-15.5	.8
ENVIRONMENTAL SCIENCES	640	745	820	726	709	823	2.1	16.1	4.3
ATMOSPHERIC SCIENCES	0	0	6	9	7	3	**	-57.1	**
GEOSCIENCES	284	308	366	343	285	346	.1	21.4	3.3
OCEANOGRAPHY	0	2	13	15	107	116	**	8.4	**
ENVIRONMENTAL SCIENCES, N.E.C.	356	435	435	359	310	358	-2.7	15.5	.1
MATHEMATICAL/COMPUTER SCIENCES	2,947	2,865	3,092	2,773	2,705	3,600	-1.7	33.1	3.4
COMPUTER SCIENCE	1,058	1,185	1,466	1,418	1,532	2,215	7.7	44.6	13.1
MATHEMATICS AND APPLIED MATHEMATICS	1,735	1,504	1,434	1,166	1,022	1,260	-10.0	23.3	-5.2
STATISTICS	154	176	192	189	151	125	-.4	-17.2	-3.4
LIFE SCIENCES	5,938	6,596	7,760	7,781	7,235	7,256	4.0	.3	3.4
AGRICULTURAL SCIENCES	260	276	328	394	307	314	3.4	2.3	3.2
BIOLOGICAL SCIENCES	3,397	3,639	4,141	3,622	3,209	2,844	-1.1	-11.4	-2.9
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	104	97	84	61	30	20	-22.0	-33.3	-24.0
BIOLOGY	2,889	3,062	3,422	2,863	2,517	2,318	-2.7	-7.9	-3.6
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	22	22	6	8	8	9	-18.3	12.5	-13.8
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	53	41	45	**	9.8	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	29	19	14	5	4	3	-32.7	-25.0	-31.5
MICROBIOLOGY	148	135	166	164	139	135	-1.2	-2.9	-1.5
NUTRITION	38	57	112	169	163	140	33.8	-14.1	24.3
PATHOLOGY	58	148	151	152	192	43	27.1	-77.6	-4.9
PHARMACOLOGY	0	0	2	6	8	10	**	25.0	**
PHYSIOLOGY	51	53	49	0	0	0	-100.0	**	-100.0
ZOOLOGY	9	8	4	8	0	20	-100.0	**	14.2
BIOSCIENCES, N.E.C.	49	38	131	133	107	101	16.9	-5.6	12.8
HEALTH SCIENCES	2,281	2,681	3,291	3,765	3,719	4,098	10.3	10.2	10.3
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	3	8	**	166.7	**
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	7	7	0	**	-100.0	**
NURSING	348	437	628	1,000	884	1,233	20.5	39.5	23.5
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	16	10	11	10	**	-9.1	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	40	40	79	96	65	66	10.2	1.5	8.7
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	891	854	958	1,058	989	1,088	7.4	10.0	7.9
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	10	7	5	3	3	1	-21.4	-66.7	-31.9
CLINICAL MEDICINE, N.E.C.	7	58	140	203	325	299	115.5	-8.0	87.0
HEALTH RELATED, N.E.C.	1,185	1,285	1,465	1,388	1,432	1,393	3.9	-2.7	2.7
PSYCHOLOGY	4,873	5,205	6,128	6,682	6,105	6,572	4.6	7.6	5.1
SOCIAL SCIENCES	9,030	9,740	10,262	10,676	9,426	9,162	.9	-2.8	.2
AGRICULTURAL ECONOMICS	3	4	3	5	7	4	18.5	-42.9	4.9
ANTHROPOLOGY	253	273	372	305	259	234	.5	-9.7	-1.3
ECONOMICS (EXCEPT AGRICULTURAL)	700	561	604	608	575	639	-3.9	1.1	-1.5
GEOGRAPHY	416	476	381	278	283	267	-7.4	-5.7	-7.1
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	233	257	234	116	109	115	-14.1	5.5	-11.1
POLITICAL SCIENCE	4,268	4,678	5,409	5,659	5,326	5,152	4.5	-3.3	3.2
SOCIOLOGY	662	581	648	503	445	483	-7.6	8.5	-5.1
SOCIOLOGY/ANTHROPOLOGY	37	24	52	43	55	38	8.3	-30.9	.4
SOCIAL SCIENCES, N.E.C.	2,458	2,886	2,559	3,159	2,367	2,230	-.8	-5.8	-1.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-18. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	18,922	20,215	22,843	23,213	20,082	21,997	1.2	9.5	2.5
ENGINEERING	1,591	1,791	2,192	2,379	2,151	2,803	6.2	30.3	9.9
AEROSPACE	9	13	6	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	18	21	21	**	.0	**
CHEMICAL	46	50	63	85	25	88	-11.5	252.0	11.4
CIVIL	394	406	523	490	518	629	5.6	21.4	8.1
ELECTRICAL	234	261	427	35	391	491	10.8	25.6	13.1
ENGINEERING SCIENCE	0	0	1	2	1	1	**	.0	**
INDUSTRIAL	174	184	186	111	150	248	-2.9	65.3	6.1
MECHANICAL	162	167	234	226	255	270	9.5	5.9	8.9
METALLURGICAL/MATERIALS	12	19	38	54	20	10	10.8	-50.0	-3.0
MINING	4	0	0	0	0	1	-100.0	**	-20.6
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	556	691	714	1,036	770	1,044	6.7	35.6	11.1
PHYSICAL SCIENCES	759	783	930	724	645	599	-3.2	-7.1	-3.9
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	527	531	604	495	403	367	-5.2	-8.9	-5.9
PHYSICS	179	186	227	158	145	150	-4.1	3.4	-2.9
PHYSICAL SCIENCES, N.E.C.	53	66	99	71	97	82	12.8	-15.5	7.5
ENVIRONMENTAL SCIENCES	621	728	775	676	663	766	1.3	15.5	3.6
ATMOSPHERIC SCIENCES	0	0	6	9	7	3	**	-57.1	**
GEOSCIENCES	283	307	366	343	285	346	.1	21.4	3.4
OCEANOGRAPHY	0	2	13	15	107	116	**	8.4	**
ENVIRONMENTAL SCIENCES, N.E.C.	338	419	390	309	264	301	-4.8	14.0	-1.9
MATHEMATICAL/COMPUTER SCIENCES	2,011	1,926	1,910	1,868	1,733	2,446	-2.9	41.1	3.3
COMPUTER SCIENCE	363	494	559	756	770	1,252	16.2	62.6	22.9
MATHEMATICS AND APPLIED MATHEMATICS	1,601	1,398	1,315	1,090	935	1,154	-10.2	23.4	-5.3
STATISTICS	47	34	36	22	28	40	-9.8	42.9	-2.7
LIFE SCIENCES	4,474	5,146	6,037	6,115	5,384	5,391	3.8	.1	3.2
AGRICULTURAL SCIENCES	260	276	309	394	307	314	3.4	2.3	3.2
BIOLOGICAL SCIENCES	2,599	2,895	3,276	2,748	2,391	2,168	-1.7	-9.3	-3.0
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	35	29	33	36	6	0	-29.7	-100.0	-100.0
BIOLOGY	2,360	2,557	2,860	2,252	1,960	1,923	-3.6	-1.9	-3.4
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	21	21	2	0	2	2	-37.5	.0	-32.4
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	3	6	**	100.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	90	85	100	99	73	63	-4.1	-13.7	-5.8
NUTRITION	38	57	112	169	140	101	29.8	-27.9	17.7
PATHOLOGY	47	140	132	141	179	27	30.7	-84.9	-8.8
PHARMACOLOGY	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	8	6	3	4	0	6	-100.0	**	-4.7
BIOSCIENCES, N.E.C.	0	0	34	47	28	40	**	42.9	**
HEALTH SCIENCES	1,615	1,975	2,452	2,973	2,686	2,909	10.7	8.3	10.3
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0
NURSING	236	295	468	738	560	806	18.9	43.9	22.7
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	0	0	0	0	0	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	40	40	79	96	65	66	10.2	1.5	8.7
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	605	762	834	903	892	977	8.1	9.5	8.3
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	0	43	124	179	185	160	**	-13.5	**
HEALTH RELATED, N.E.C.	734	835	947	1,057	984	900	6.0	-8.5	3.5
PSYCHOLOGY	3,418	3,617	4,245	4,570	3,712	3,995	1.7	7.6	2.6
SOCIAL SCIENCES	6,048	6,224	6,754	6,881	5,794	5,997	-.9	3.5	-.1
AGRICULTURAL ECONOMICS	3	4	3	5	7	4	18.5	-42.9	4.9
ANTHROPOLOGY	250	269	369	299	255	231	.4	-9.4	-1.3
ECONOMICS (EXCEPT AGRICULTURAL)	526	426	466	412	328	374	-9.0	14.0	-5.5
GEOGRAPHY	413	474	370	273	281	265	-7.4	-5.7	-7.1
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	140	161	101	116	109	115	-4.9	5.5	-3.2
POLITICAL SCIENCE	2,509	2,983	3,149	3,418	3,166	3,306	4.8	4.4	4.7
SOCIOLOGY	537	465	541	371	338	387	-8.8	14.5	-5.3
SOCIOLOGY/ANTHROPOLOGY	37	24	51	43	54	37	7.9	-31.5	.0
SOCIAL SCIENCES, N.E.C.	1,633	1,418	1,704	1,944	1,256	1,278	-5.1	1.8	-4.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-19. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL FIELDS	8,696	9,207	10,329	10,524	10,747	10,935	4.3	1.7	3.9
ENGINEERING	1,460	1,336	1,637	1,682	1,599	1,893	1.8	18.4	4.4
AEROSPACE	5	3	7	4	4	4	-4.4	.0	-3.7
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	21	16	30	8	10	10	-13.8	.0	-11.6
CHEMICAL	42	54	37	49	56	66	5.9	17.9	7.8
CIVIL	77	96	125	118	114	114	8.2	.0	6.8
ELECTRICAL	387	370	431	426	423	508	1.8	20.1	4.6
ENGINEERING SCIENCE	43	34	107	155	145	195	27.5	34.5	28.7
INDUSTRIAL	417	375	471	372	328	380	-4.7	15.9	-1.5
MECHANICAL	269	220	248	380	367	350	6.4	-4.6	4.5
METALLURGICAL/MATERIALS	21	17	21	31	33	50	9.5	51.5	15.6
MINING	0	0	0	0	0	0	0	0	0
NUCLEAR	19	12	14	4	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	159	139	146	135	119	216	-5.6	81.5	5.2
PHYSICAL SCIENCES	380	361	351	314	254	224	-7.7	-11.8	-8.4
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	298	289	256	201	210	195	-6.8	-7.1	-6.8
PHYSICS	57	53	74	38	44	29	-5.0	-34.1	-10.7
PHYSICAL SCIENCES, N.E.C.	25	19	21	75	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	19	17	45	50	46	57	19.3	23.9	20.1
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0
GEOSCIENCES	1	1	0	0	0	0	-100.0	**	-100.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	18	16	45	50	46	57	20.6	23.9	21.2
MATHEMATICAL/COMPUTER SCIENCES	936	939	1,182	905	972	1,154	.8	18.7	3.6
COMPUTER SCIENCE	695	691	907	662	762	963	1.9	26.4	5.6
MATHEMATICS AND APPLIED MATHEMATICS	134	106	119	76	87	106	-8.3	21.8	-3.8
STATISTICS	107	142	156	167	123	85	2.8	-30.9	-3.8
LIFE SCIENCES	1,464	1,450	1,723	1,666	1,851	1,865	4.8	.8	4.1
AGRICULTURAL SCIENCES	0	0	19	0	0	0	**	**	**
BIOLOGICAL SCIENCES	798	744	865	874	818	676	.5	-17.4	-2.7
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	69	68	51	25	24	20	-19.0	-16.7	-18.6
BIOLOGY	529	505	562	611	557	395	1.0	-29.1	-4.8
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	1	1	4	8	6	7	43.1	16.7	38.3
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	53	38	39	**	2.6	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	29	19	14	5	4	3	-32.7	-25.0	-31.5
MICROBIOLOGY	58	50	66	85	66	72	2.6	9.1	3.7
NUTRITION	0	0	0	0	23	39	**	69.6	**
PATHOLOGY	11	8	19	11	13	16	3.4	23.1	6.4
PHARMACOLOGY	0	0	2	6	8	10	**	25.0	**
PHYSIOLOGY	51	53	49	0	0	0	-100.0	**	-100.0
ZOOLOGY	1	2	1	4	0	14	-100.0	**	55.2
BIOSCIENCES, N.E.C.	49	38	97	86	79	61	10.0	-22.8	3.7
HEALTH SCIENCES	666	706	839	792	1,033	1,189	9.2	15.1	10.1
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	3	8	**	166.7	**
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	7	7	0	**	-100.0	**
NURSING	112	142	160	262	324	427	23.7	31.8	25.0
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	16	10	11	10	**	-9.1	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0	0	0	0
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	86	92	124	155	97	111	2.4	14.4	4.3
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	10	7	5	3	3	1	-21.4	-66.7	-31.9
CLINICAL MEDICINE, N.E.C.	7	15	16	24	140	139	82.1	-.7	64.6
HEALTH RELATED, N.E.C.	451	450	518	331	448	493	-.1	10.0	1.5
PSYCHOLOGY	1,455	1,588	1,883	2,112	2,393	2,577	10.5	7.7	10.0
SOCIAL SCIENCES	2,982	3,516	3,508	3,795	3,632	3,165	4.0	-12.9	1.0
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	0	0
ANTHROPOLOGY	3	4	3	6	4	3	5.9	-25.0	.0
ECONOMICS (EXCEPT AGRICULTURAL)	174	135	138	196	247	265	7.3	7.3	7.3
GEOGRAPHY	3	2	11	5	2	2	-7.8	.0	-6.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	93	96	133	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	1,759	1,695	2,260	2,241	2,160	1,846	4.2	-14.5	.8
SOCIOLOGY	125	116	107	132	107	96	-3.1	-10.3	-4.3
SOCIOLOGY/ANTHROPOLOGY	0	0	1	0	1	1	**	.0	**
SOCIAL SCIENCES, N.E.C.	825	1,468	855	1,215	1,111	952	6.1	-14.3	2.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-20. -- MALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-81

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	19,064	21,201	19,046	17,679	17,891	-1.9	1.2	-1.3
ENGINEERING	2,927	3,626	3,636	3,480	4,244	4.4	22.0	7.7
AEROSPACE	16	13	4	4	4	-29.3	.0	-24.2
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	16	27	16	28	25	15.0	-10.7	9.3
CHEMICAL	89	96	115	71	130	-5.5	83.1	7.9
CIVIL	457	590	510	543	684	4.4	26.0	8.4
ELECTRICAL	617	839	754	792	941	6.4	18.8	8.8
ENGINEERING SCIENCE	34	103	146	142	183	43.0	28.9	40.0
INDUSTRIAL	539	608	414	421	537	-6.0	27.6	-.1
MECHANICAL	378	470	574	594	592	12.0	-.3	9.4
METALLURGICAL/MATERIALS	35	51	71	48	49	8.2	2.1	7.0
MINING	0	0	0	0	1	**	**	**
NUCLEAR	11	12	4	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	735	817	1,028	837	1,098	3.3	31.2	8.4
PHYSICAL SCIENCES	898	1,006	691	685	573	-6.5	-16.4	-8.6
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	625	649	470	456	375	-7.6	-17.8	-9.7
PHYSICS	213	268	156	161	153	-6.8	-5.0	-6.4
PHYSICAL SCIENCES, N.E.C.	60	89	65	68	45	3.2	-33.8	-5.6
ENVIRONMENTAL SCIENCES	567	628	539	529	601	-1.7	13.6	1.2
ATMOSPHERIC SCIENCES	0	6	8	7	3	**	-57.1	**
GEOSCIENCES	243	292	255	224	266	-2.0	18.8	1.8
OCEANOGRAPHY	1	9	11	78	82	197.2	5.1	141.4
ENVIRONMENTAL SCIENCES, N.E.C.	323	321	265	220	250	-9.2	13.6	-5.0
MATHEMATICAL/COMPUTER SCIENCES	2,057	2,256	1,868	1,812	2,363	-3.1	30.4	2.8
COMPUTER SCIENCE	1,005	1,229	1,088	1,093	1,544	2.1	41.3	9.0
MATHEMATICS AND APPLIED MATHEMATICS	914	843	650	618	727	-9.3	17.6	-4.5
STATISTICS	138	144	130	101	92	-7.5	-8.9	-7.8
LIFE SCIENCES	3,433	3,879	3,110	2,877	2,496	-4.3	-13.2	-6.2
AGRICULTURAL SCIENCES	232	271	334	250	261	1.9	4.4	2.4
BIOLOGICAL SCIENCES	2,359	2,578	1,982	1,737	1,454	-7.4	-16.3	-9.2
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	75	59	46	21	10	-27.3	-52.4	-33.2
BIOLOGY	2,025	2,204	1,687	1,469	1,250	-7.7	-14.9	-9.2
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	16	5	6	3	5	-34.2	66.7	-20.8
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	18	25	18	**	-28.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	**	**	**
MICROBIOLOGY	75	87	84	67	72	-2.8	7.5	-.8
NUTRITION	3	9	7	12	5	41.4	-58.3	10.8
PATHOLOGY	79	81	65	83	23	1.2	-72.3	-21.9
PHARMACOLOGY	0	1	4	5	3	**	-40.0	**
PHYSIOLOGY	53	49	0	0	0	-100.0	**	-100.0
ZOOLOGY	5	3	8	0	10	-100.0	**	14.9
BIOSCIENCES, N.E.C.	28	60	57	52	56	16.7	11.5	15.7
HEALTH SCIENCES	842	1,039	794	890	781	1.4	-12.2	-1.5
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	4	**	**	**
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	5	5	0	**	-100.0	**
NURSING	35	44	42	37	59	1.4	59.5	11.0
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	13	8	9	6	**	-33.3	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4	34	24	11	10	28.8	-9.1	20.1
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	108	172	124	93	73	-3.7	-21.5	-7.5
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	4	3	3	3	0	-6.9	-100.0	-100.0
CLINICAL MEDICINE, N.E.C.	25	50	58	72	83	30.3	15.3	27.1
HEALTH RELATED, N.E.C.	666	723	530	660	546	-.2	-17.3	-3.9
PSYCHOLOGY	2,640	2,923	2,830	2,631	2,558	-.1	-2.8	-.6
SOCIAL SCIENCES	6,542	6,887	6,372	5,665	5,056	-3.5	-10.8	-5.0
AGRICULTURAL ECONOMICS	4	3	5	6	4	10.7	-33.3	.0
ANTHROPOLOGY	111	164	100	111	92	.0	-17.1	-3.7
ECONOMICS (EXCEPT AGRICULTURAL)	453	489	437	410	430	-2.5	4.9	-1.0
GEOGRAPHY	349	282	191	181	180	-15.1	-.6	-12.4
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	148	116	18	23	23	-37.2	.0	-31.1
POLITICAL SCIENCE	3,453	3,930	3,671	3,435	3,000	-.1	-12.7	-2.8
SOCIOLOGY	291	308	241	217	171	-7.1	-21.2	-10.1
SOCIOLOGY/ANTHROPOLOGY	11	42	23	27	23	25.2	-14.8	15.9
SOCIAL SCIENCES, N.E.C.	1,722	1,553	1,686	1,255	1,133	-7.6	-9.7	-8.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-21. -- FEMALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-81

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1976-80	1980-81	1976-81
TOTAL, ALL FIELDS	10,358	11,971	14,691	13,150	15,041	6.1	14.4	7.7
ENGINEERING	200	203	425	270	452	7.8	67.4	17.7
AEROSPACE	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	0	3	10	3	6	**	100.0	**
CHEMICAL	15	4	19	10	24	-9.6	140.0	9.9
CIVIL	45	58	98	89	59	18.6	-33.7	5.6
ELECTRICAL	14	19	29	22	58	12.0	163.6	32.9
ENGINEERING SCIENCE	0	5	11	4	13	**	225.0	**
INDUSTRIAL	20	49	69	57	91	29.9	59.6	35.4
MECHANICAL	9	12	32	28	28	32.8	.0	25.5
METALLURGICAL/MATERIALS	1	8	14	5	11	49.5	120.0	61.5
MINING	0	0	0	0	0	0	0	0
NUCLEAR	1	2	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	95	43	143	52	162	-14.0	211.5	11.3
PHYSICAL SCIENCES	246	275	347	214	250	-3.4	16.8	.3
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	195	211	226	157	187	-5.3	19.1	-.8
PHYSICS	26	33	40	28	26	1.9	-7.1	.0
PHYSICAL SCIENCES, N.E.C.	25	31	81	29	37	3.8	27.6	8.2
ENVIRONMENTAL SCIENCES	178	192	187	180	222	.3	23.3	4.5
ATMOSPHERIC SCIENCES	0	0	1	0	0	**	**	**
GEOSCIENCES	65	74	88	61	80	-1.6	31.1	4.2
OCEANOGRAPHY	1	4	4	29	34	132.1	17.2	102.4
ENVIRONMENTAL SCIENCES, N.E.C.	112	114	94	90	108	-5.3	20.0	-.7
MATHEMATICAL/COMPUTER SCIENCES	808	836	905	893	1,237	2.5	38.5	8.9
COMPUTER SCIENCE	180	237	330	439	671	25.0	52.8	30.1
MATHEMATICS AND APPLIED MATHEMATICS	590	551	516	404	533	-9.0	31.9	-2.0
STATISTICS	38	48	59	50	33	7.1	-34.0	-2.8
LIFE SCIENCES	3,163	3,885	4,671	4,358	4,760	8.3	9.2	8.5
AGRICULTURAL SCIENCES	44	50	60	57	53	6.7	-7.0	3.8
BIOLOGICAL SCIENCES	1,280	1,583	1,640	1,472	1,390	3.6	-5.6	1.7
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	22	25	15	9	10	-20.0	11.1	-14.6
BIOLOGY	1,037	1,218	1,176	1,048	1,068	.3	1.9	.6
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	6	1	2	5	4	-4.5	-20.0	-7.8
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	35	16	27	**	68.8	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	19	14	5	4	3	-32.3	-25.0	-30.9
MICROBIOLOGY	60	79	80	72	63	4.7	-12.5	1.0
NUTRITION	54	103	162	151	135	29.3	-10.6	20.1
PATHOLOGY	69	70	87	109	20	12.1	-81.7	-21.9
PHARMACOLOGY	0	1	2	3	7	**	133.3	**
PHYSIOLOGY	0	0	0	0	0	0	0	0
ZOOLOGY	3	1	0	0	10	-100.0	**	27.2
BIOSCIENCES, N.E.C.	10	71	76	55	43	53.1	-21.8	33.9
HEALTH SCIENCES	1,839	2,252	2,971	2,829	3,317	11.4	17.2	12.5
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	3	4	**	33.3	**
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	2	2	0	**	-100.0	**
NURSING	402	584	958	847	1,174	20.5	38.6	23.9
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	3	2	2	4	**	100.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	36	45	72	54	56	10.7	3.7	9.2
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	746	786	934	896	1,015	4.7	13.3	6.4
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	3	2	0	0	1	-100.0	**	-19.7
CLINICAL MEDICINE, N.E.C.	33	90	145	253	216	66.4	-14.6	45.6
HEALTH RELATED, N.E.C.	619	742	858	772	847	5.7	9.7	6.5
PSYCHOLOGY	2,565	3,205	3,852	3,474	4,014	7.9	15.5	9.4
SOCIAL SCIENCES	3,198	3,375	4,304	3,741	4,106	4.1	9.2	5.1
AGRICULTURAL ECONOMICS	0	0	0	1	0	**	-100.0	**
ANTHROPOLOGY	162	208	205	148	142	-2.2	-4.1	-2.6
ECONOMICS (EXCEPT AGRICULTURAL)	108	115	171	165	209	11.2	26.7	14.1
GEOGRAPHY	127	99	87	102	87	-5.3	-14.7	-7.3
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	109	118	98	84	92	-5.8	7.0	-3.3
POLITICAL SCIENCE	1,225	1,479	1,988	1,891	2,152	11.5	13.8	11.9
SOCIOLOGY	290	340	262	228	312	-5.8	36.8	1.5
SOCIOLOGY/ANTHROPOLOGY	13	10	20	28	15	21.1	-46.4	2.9
SOCIAL SCIENCES, N.E.C.	1,164	1,006	1,473	1,112	1,097	-1.1	-1.3	-1.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-22. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-77 AND 1979-81

DIVISION AND STATE	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1975-80	1980-81	1975-81
TOTAL, ALL INSTITUTIONS	27,618	29,422	33,172	33,737	30,829	32,932	2.2	6.8	3.0
NEW ENGLAND	2,108	1,916	2,861	3,624	3,871	3,567	12.9	-7.9	9.2
CONNECTICUT	1,288	1,235	1,816	2,401	2,418	2,159	13.4	-10.7	9.0
MAINE	0	0	0	0	0	0	**	**	**
MASSACHUSETTS	648	533	899	1,079	1,286	1,265	14.7	-1.6	11.8
NEW HAMPSHIRE	79	64	52	41	67	38	-3.2	-43.3	-11.5
RHODE ISLAND	50	46	52	76	99	105	14.6	6.1	13.2
VERMONT	43	38	42	27	1	0	-52.9	-100.0	-100.0
MIDDLE ATLANTIC	7,584	7,587	7,885	6,915	5,513	6,328	-6.2	14.8	-3.0
NEW JERSEY	2,692	2,589	2,539	1,347	966	987	-18.5	2.2	-15.4
NEW YORK	3,776	3,331	3,693	3,800	3,014	3,623	-4.4	20.2	-.7
PENNSYLVANIA	1,116	1,667	1,653	1,768	1,533	1,718	6.6	12.1	7.5
EAST NORTH CENTRAL	3,598	3,866	3,702	3,336	3,496	3,690	-.6	5.5	.4
ILLINOIS	2,256	2,574	2,250	2,301	2,210	2,261	-.4	2.3	*
INDIANA	208	211	375	334	344	310	10.6	-9.9	6.9
MICHIGAN	310	262	280	278	355	457	2.7	28.7	6.7
OHIO	526	534	480	162	201	181	-17.5	-10.0	-16.3
WISCONSIN	298	285	317	261	386	481	5.3	24.6	8.3
WEST NORTH CENTRAL	594	615	693	819	985	1,032	10.6	4.8	9.6
IOWA	94	97	143	106	118	112	4.7	-5.1	3.0
KANSAS	220	238	200	241	379	518	11.5	36.7	15.3
MINNESOTA	213	170	203	302	277	207	5.4	-25.3	-.5
MISSOURI	61	104	137	164	201	193	26.9	-4.0	21.2
NEBRASKA	6	6	10	6	10	2	10.8	-80.0	-16.7
NORTH DAKOTA	0	0	0	0	0	0	**	**	**
SOUTH DAKOTA	0	0	0	0	0	0	**	**	**
SOUTH ATLANTIC	3,111	3,276	3,267	3,966	3,167	3,627	.4	14.5	2.6
DELAWARE	0	0	0	0	0	0	**	**	**
DISTRICT OF COLUMBIA	36	37	38	35	35	36	-.6	2.9	.0
FLORIDA	691	693	828	945	714	566	.7	-20.7	-3.3
GEORGIA	191	230	202	304	246	238	5.2	-3.3	3.7
MARYLAND	1,176	1,155	971	1,708	1,575	1,671	6.0	6.1	6.0
NORTH CAROLINA	244	242	332	165	260	294	1.3	13.1	3.2
SOUTH CAROLINA	77	76	66	103	100	109	5.4	9.0	6.0
VIRGINIA	337	480	492	590	237	206	-6.8	-13.1	-7.9
WEST VIRGINIA	359	363	338	116	0	507	-100.0	**	5.9
EAST SOUTH CENTRAL	855	783	915	1,298	963	1,179	2.4	22.4	5.5
ALABAMA	119	102	143	281	220	228	13.1	3.6	11.4
KENTUCKY	186	148	204	360	318	355	11.3	11.6	11.4
MISSISSIPPI	91	134	157	140	117	109	5.2	-6.8	3.1
TENNESSEE	459	399	411	517	308	487	-7.7	58.1	1.0
WEST SOUTH CENTRAL	1,791	2,057	2,399	2,739	2,735	2,661	8.8	-2.7	6.8
ARKANSAS	160	258	191	269	254	260	9.7	2.4	8.4
LOUISIANA	172	162	154	139	136	240	-4.6	76.5	5.7
OKLAHOMA	25	24	43	87	85	61	27.7	-28.2	16.0
TEXAS	1,434	1,613	2,011	2,244	2,260	2,100	9.5	-7.1	6.6
MOUNTAIN	29	25	93	182	212	296	48.9	39.6	47.3
ARIZONA	0	0	0	0	0	0	**	**	**
COLORADO	4	4	7	9	22	25	40.6	13.6	35.7
IDAHO	0	0	0	0	0	0	**	**	**
MONTANA	5	1	0	2	3	3	-9.7	.0	-8.2
NEVADA	0	0	0	101	117	122	**	4.3	**
NEW MEXICO	20	20	86	70	70	146	28.5	108.6	39.3
UTAH	0	0	0	0	0	0	**	**	**
WYOMING	0	0	0	0	0	0	**	**	**
PACIFIC	7,935	9,284	11,343	10,837	9,862	10,534	4.4	6.8	4.8
ALASKA	47	75	168	149	168	169	29.0	.6	23.8
CALIFORNIA	7,334	8,597	10,741	10,034	9,069	9,730	4.3	7.3	4.8
HAWAII	0	0	0	0	0	0	**	**	**
OREGON	62	69	84	74	120	127	14.1	5.8	12.7
WASHINGTON	492	543	350	580	505	508	.5	.6	.5
OUTLYING AREAS	13	13	14	21	25	18	14.0	-28.0	5.6

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-1. -- SCIENCE/ENGINEERING DEPARTMENTAL POPULATION AT DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1974-81

FIELD	1974	1975	1976	1977	1978	1979	1980	1981
TOTAL, ALL FIELDS	7,498	7,659	7,760	7,989	8,203	8,342	8,530	8,493
ENGINEERING	1,000	1,015	1,011	1,018	1,029	1,033	1,050	1,054
AEROSPACE	41	39	38	38	37	36	36	35
AGRICULTURAL	40	42	41	41	40	39	39	39
BIOMEDICAL	34	35	36	37	39	37	36	38
CHEMICAL	123	124	123	122	122	123	128	127
CIVIL	144	148	146	147	146	146	149	147
ELECTRICAL	147	148	146	146	147	150	153	154
ENGINEERING SCIENCE	35	37	37	38	39	38	38	38
INDUSTRIAL	89	93	93	95	97	97	100	98
MECHANICAL	155	153	151	154	154	154	154	155
METALLURGICAL/MATERIALS	65	66	64	65	65	67	66	67
MINING	20	19	19	19	20	21	23	24
NUCLEAR	31	32	31	30	32	31	30	31
PETROLEUM	12	14	14	13	13	13	15	14
ENGINEERING, N.E.C.	64	65	72	73	78	81	83	87
PHYSICAL SCIENCES	507	520	505	505	514	514	523	523
ASTRONOMY	34	36	32	32	33	32	32	32
CHEMISTRY	240	245	241	240	245	248	252	252
PHYSICS	225	230	228	228	229	229	233	233
PHYSICAL SCIENCES, N.E.C.	8	9	4	5	7	5	6	6
ENVIRONMENTAL SCIENCES	254	257	263	268	275	276	278	284
ATMOSPHERIC SCIENCES	25	24	27	28	29	28	28	29
GEOSCIENCES	175	177	178	175	178	180	180	181
OCEANOGRAPHY	30	31	32	33	33	33	33	35
ENVIRONMENTAL SCIENCES, N.E.C.	24	25	26	32	35	35	37	39
MATHEMATICAL/COMPUTER SCIENCES	380	390	399	403	415	426	454	454
COMPUTER SCIENCE	81	87	91	94	101	108	123	127
MATHEMATICS AND APPLIED MATHEMATICS	254	257	260	260	263	266	276	272
STATISTICS	45	46	48	49	51	52	55	55
LIFE SCIENCES	4,063	4,161	4,213	4,383	4,503	4,589	4,666	4,619
AGRICULTURAL SCIENCES	281	275	275	276	271	274	273	272
BIOLOGICAL SCIENCES	1,504	1,530	1,522	1,570	1,625	1,685	1,715	1,716
ANATOMY	99	97	97	100	107	111	113	112
BIOCHEMISTRY	157	154	153	157	167	173	171	173
BIOLOGY	181	192	192	193	199	206	209	209
BIOMETRY/EPIDEMIOLOGY	39	37	37	43	43	41	45	42
BIOPHYSICS	34	37	34	36	38	40	40	38
BOTANY	115	113	113	110	109	109	109	108
CELL BIOLOGY	31	30	30	32	33	35	37	41
ECOLOGY	13	14	17	19	20	20	21	22
ENTOMOLOGY/PARASITOLOGY	45	48	48	47	48	47	47	47
GENETICS	52	51	51	54	55	58	57	59
MICROBIOLOGY	180	191	193	204	207	220	228	228
NUTRITION	76	74	74	77	80	86	89	91
PATHOLOGY	139	143	140	145	150	149	156	153
PHARMACOLOGY	147	153	153	163	171	177	179	176
PHYSIOLOGY	123	124	120	124	129	137	139	140
ZOOLOGY	62	60	58	54	54	56	52	51
BIOSCIENCES, N.E.C.	11	12	12	12	15	20	23	26
HEALTH SCIENCES	2,278	2,356	2,416	2,537	2,607	2,630	2,678	2,631
ANESTHESIOLOGY	93	96	94	99	98	98	98	95
CANCER/ONCOLOGY	15	18	20	22	22	24	25	26
CARDIOLOGY	101	97	98	98	98	92	93	91
DENTISTRY	54	70	92	125	132	131	130	138
ENDOCRINOLOGY	94	97	99	99	99	95	95	92
GASTROENTEROLOGY	86	85	86	86	86	82	82	81
HEMATOLOGY	92	91	90	89	89	87	88	85
NEUROLOGY	106	113	116	117	120	128	128	125
NURSING	38	45	57	78	83	88	97	99
OBSTETRICS/GYNECOLOGY	105	108	107	106	105	106	108	102
OPHTHALMOLOGY	96	98	99	99	100	100	98	95
OTORHINOLARYNGOLOGY	93	93	94	93	93	92	91	87
PEDIATRICS	108	108	109	109	109	108	109	106
PHARMACEUTICAL SCIENCES	71	72	70	81	82	82	83	82
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	148	153	154	160	162	157	163	155
PSYCHIATRY	99	102	103	104	103	108	111	106
PULMONARY DISEASE	83	85	85	84	84	81	80	76
RADIOLOGY	121	124	122	123	125	130	133	131
SPEECH PATHOLOGY/AUDIOLOGY	93	95	90	98	108	115	121	121
SURGERY	194	203	207	210	211	220	234	227
VETERINARY SCIENCES	56	54	54	58	59	60	57	62
CLINICAL MEDICINE, N.E.C.	242	258	270	290	320	321	325	317
HEALTH RELATED, N.E.C.	90	91	100	109	119	125	129	132
PSYCHOLOGY	274	278	285	299	315	318	324	329
SOCIAL SCIENCES	1,020	1,038	1,084	1,113	1,152	1,186	1,235	1,230
AGRICULTURAL ECONOMICS	44	46	46	46	46	46	46	47
ANTHROPOLOGY	104	106	106	106	109	109	113	113
ECONOMICS (EXCEPT AGRICULTURAL)	180	183	184	184	188	189	200	195
GEOGRAPHY	88	87	88	90	94	96	99	99
HISTORY AND PHILOSOPHY OF SCIENCE	27	27	26	26	26	27	26	27
LINGUISTICS	53	58	57	53	54	61	63	63
POLITICAL SCIENCE	213	221	237	248	259	273	288	285
SOCIOLOGY	163	160	165	166	168	172	180	175
SOCIOLOGY/ANTHROPOLOGY	26	27	28	31	34	36	34	35
SOCIAL SCIENCES, N.E.C.	122	123	147	163	174	177	186	191

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-2. — SCIENCE/ENGINEERING DEPARTMENTAL POPULATION AT MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-81

FIELD	1975	1976	1977	1979	1980	1981
TOTAL, ALL FIELDS	1,264	1,300	1,470	1,443	1,397	1,424
ENGINEERING	127	128	156	147	143	141
AEROSPACE	3	3	2	1	1	1
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	2	2	2	3	3	3
CHEMICAL	7	7	8	9	7	7
CIVIL	16	17	23	21	22	21
ELECTRICAL	21	21	27	26	27	25
ENGINEERING SCIENCE	6	6	7	6	6	6
INDUSTRIAL	19	19	23	20	22	25
MECHANICAL	19	19	23	21	19	16
METALLURGICAL/MATERIALS	5	5	6	5	4	5
MINING	5	5	3	3	3	3
NUCLEAR	2	2	2	1	0	0
PETROLEUM	1	1	1	1	1	1
ENGINEERING, N.E.C.	22	22	29	30	28	28
PHYSICAL SCIENCES	177	180	190	172	158	154
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	108	109	113	104	96	95
PHYSICS	56	57	61	56	52	49
PHYSICAL SCIENCES, N.E.C.	13	14	16	12	10	10
ENVIRONMENTAL SCIENCES	46	50	54	53	55	55
ATMOSPHERIC SCIENCES	0	0	1	1	1	1
GEOSCIENCES	29	30	31	29	29	28
OCEANOGRAPHY	1	3	2	2	3	3
ENVIRONMENTAL SCIENCES, N.E.C.	16	17	20	21	22	23
MATHEMATICAL/COMPUTER SCIENCES	153	157	173	167	157	162
COMPUTER SCIENCE	23	25	31	32	31	38
MATHEMATICS AND APPLIED MATHEMATICS	127	128	138	130	122	121
STATISTICS	3	4	4	5	4	3
LIFE SCIENCES	289	298	348	356	352	369
AGRICULTURAL SCIENCES	16	17	19	25	24	25
BIOLOGICAL SCIENCES	197	197	224	218	206	207
ANATOMY	0	0	0	0	0	0
BIOCHEMISTRY	5	5	7	6	3	2
BIOLOGY	157	158	174	171	162	161
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	1	0	0	0	0	0
BOTANY	7	7	6	4	4	4
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	0	0	0	2	2	2
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0
GENETICS	1	1	1	1	1	1
MICROBIOLOGY	6	6	8	8	8	8
NUTRITION	5	6	9	8	11	12
PATHOLOGY	4	4	6	4	4	4
PHARMACOLOGY	1	1	1	1	1	1
PHYSIOLOGY	1	1	1	0	0	0
ZOOLOGY	4	4	4	4	4	5
BIOSCIENCES, N.E.C.	5	4	7	7	6	7
HEALTH SCIENCES	76	84	105	115	122	137
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	1	1
DENTISTRY	3	3	3	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	0	0	0	1	1	1
NURSING	10	14	17	18	17	23
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	3	2	4	4	4	4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1	1	3	3	3	3
PSYCHIATRY	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	32	34	43	48	49	54
SURGERY	0	0	0	0	0	0
VETERINARY SCIENCES	1	1	1	1	1	1
CLINICAL MEDICINE, N.E.C.	1	2	4	6	8	8
HEALTH RELATED, N.E.C.	25	27	30	34	38	42
PSYCHOLOGY	149	153	167	179	175	185
SOCIAL SCIENCES	323	334	382	369	357	358
AGRICULTURAL ECONOMICS	2	2	2	2	3	3
ANTHROPOLOGY	12	12	15	15	12	12
ECONOMICS (EXCEPT AGRICULTURAL)	53	53	55	50	44	42
GEOGRAPHY	28	28	31	27	27	26
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	7	7	6	4	4	4
POLITICAL SCIENCE	107	115	132	124	122	129
SOCIOLOGY	42	43	50	54	51	49
SOCIOLOGY/ANTHROPOLOGY	9	9	8	6	6	6
SOCIAL SCIENCES, N.E.C.	63	65	83	87	88	87

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	340,203	234,529	105,674	19,655
1 UNIVERSITY OF SOUTHERN CALIFORNIA	7,507	2,938	4,569	215
2 UNIVERSITY OF CALIF AT BERKELEY	5,598	5,598	0	436
3 UNIVERSITY OF WISCONSIN - MADISON	5,343	4,741	602	436
4 UNIVERSITY OF MINNESOTA	5,209	4,360	849	359
5 OHIO STATE UNIVERSITY	4,787	3,993	794	218
6 UNIVERSITY OF PITTSBURGH	4,558	2,429	2,129	107
7 UNIVERSITY OF MICHIGAN	4,401	3,925	476	220
8 UNIVERSITY OF ILLINOIS - URBANA	4,313	4,070	243	272
9 UNIVERSITY OF CALIF AT LOS ANGELES	4,266	4,107	159	447
10 RUTGERS THE STATE UNIVERSITY	4,247	1,740	2,507	108
TOTAL, 1ST 10 INSTS.	50,229	37,901	12,328	2,818
11 UNIVERSITY OF WASHINGTON	4,241	3,314	927	402
12 UNIV OF TEXAS AT AUSTIN	4,032	3,397	635	205
13 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	3,950	3,739	211	412
14 PURDUE UNIVERSITY	3,917	3,059	858	180
15 STANFORD UNIVERSITY	3,811	3,341	470	508
16 GEORGE WASHINGTON UNIVERSITY	3,790	664	3,126	19
17 PENNSYLVANIA STATE UNIVERSITY	3,573	2,672	901	96
18 UNIVERSITY OF COLORADO	3,517	2,605	912	276
19 NORTHEASTERN UNIVERSITY	3,426	922	2,504	30
20 NEW YORK UNIVERSITY	3,372	1,279	2,093	169
TOTAL, 1ST 20 INSTS.	87,858	62,893	24,965	5,115
21 TEXAS A & M UNIVERSITY	3,365	2,759	606	67
22 UNIVERSITY OF ARIZONA	3,169	2,423	746	197
23 MICHIGAN STATE UNIVERSITY	3,053	2,711	342	144
24 CORNELL UNIVERSITY	3,048	3,037	11	397
25 HARVARD UNIVERSITY	3,042	2,953	89	1,227
26 COLUMBIA UNIV MAIN DIVISION	2,991	2,189	802	328
27 UNIVERSITY OF CALIF AT DAVIS	2,890	2,746	144	185
28 UNIVERSITY OF MARYLAND - COLLEGE PARK	2,867	1,638	1,229	140
29 UNIVERSITY OF TENNESSEE AT KNOXVILLE	2,828	1,909	919	77
30 FLORIDA INSTITUTE OF TECHNOLOGY	2,733	612	2,121	0
TOTAL, 1ST 30 INSTS.	117,844	85,870	31,974	7,877
31 UNIVERSITY OF PENNSYLVANIA	2,619	1,972	647	366
32 UNIVERSITY OF FLORIDA	2,603	2,290	313	146
33 BOSTON UNIVERSITY	2,579	1,719	860	56
34 UNIV OF NORTH CAROLINA AT CHAPEL HILL	2,473	2,221	252	200
35 IOWA STATE UNIVERSITY OF SCI & TECH	2,432	1,950	482	64
36 SUNY - STONY BROOK	2,413	1,732	681	178
37 UNIVERSITY OF CINCINNATI	2,405	1,526	879	50
38 INDIANA UNIVERSITY, ALL CAMPUSES	2,376	1,694	682	162
39 VIRGINIA POLYTECHNIC INST AND STATE UNIV	2,350	1,830	520	48
40 POLYTECHNIC INSTITUTE OF NEW YORK	2,304	357	1,947	21
TOTAL, 1ST 40 INSTS.	142,398	103,161	39,237	9,168
41 UNIVERSITY OF CONNECTICUT	2,257	1,823	434	114
42 NORTH CAROLINA STATE UNIV AT RALEIGH	2,252	1,859	393	57
43 UNIVERSITY OF KANSAS	2,212	1,960	252	117
44 WEST VIRGINIA UNIVERSITY	2,142	1,120	1,022	34
45 LONG ISLAND UNIVERSITY	2,130	343	1,787	1
46 SUNY - BUFFALO	2,089	1,394	695	117
47 SYRACUSE UNIVERSITY	2,059	1,213	846	40
48 UNIVERSITY OF MASSACHUSETTS AT AMHERST	2,007	1,768	239	92
49 GEORGIA INSTITUTE OF TECHNOLOGY	1,998	1,477	521	39
50 ARIZONA STATE UNIVERSITY	1,994	1,154	840	77
TOTAL, 1ST 50 INSTS.	163,538	117,272	46,266	9,856
51 UNIVERSITY OF HAWAII AT MANOA	1,967	1,693	274	33
52 UNIVERSITY OF MISSOURI - COLUMBIA	1,954	1,530	424	61
53 UNIVERSITY OF UTAH	1,917	1,426	491	146
54 UNIVERSITY OF IOWA	1,877	1,480	397	184
55 UNIVERSITY OF WISCONSIN - MILWAUKEE	1,843	1,021	822	19
56 AMERICAN UNIVERSITY	1,833	611	1,222	14
57 WAYNE STATE UNIVERSITY	1,831	1,025	806	62
58 SAN DIEGO STATE UNIVERSITY	1,812	1,069	743	6
59 CUNY GRADUATE SCHOOL AND UNIV CENTER	1,812	1,692	120	66
60 COLORADO STATE UNIVERSITY	1,803	1,417	386	93
TOTAL, 1ST 60 INSTS.	182,187	130,236	51,951	10,540

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

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INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
61 UNIVERSITY OF GEORGIA	1,779	1,624	155	99
62 UNIVERSITY OF SOUTH CAROLINA	1,762	1,132	630	45
63 ILLINOIS INSTITUTE OF TECHNOLOGY	1,758	472	1,286	9
64 COLUMBIA UNIV TEACHERS COLLEGE	1,733	716	1,017	0
65 UNIV OF TEXAS AT ARLINGTON	1,723	846	877	10
66 CATHOLIC UNIVERSITY OF AMERICA	1,719	736	983	21
67 YALE UNIVERSITY	1,685	1,638	47	580
68 CASE WESTERN RESERVE UNIVERSITY	1,676	1,239	437	191
69 TEXAS WOMAN'S UNIVERSITY	1,660	638	1,022	1
70 NEW SCHOOL FOR SOCIAL RESEARCH	1,653	657	996	0
TOTAL, 1ST 70 INSTS.	199,335	139,934	59,401	11,496
71 OREGON STATE UNIVERSITY	1,652	1,510	142	67
72 UNIVERSITY OF KENTUCKY	1,648	1,199	449	72
73 RENSSELAER POLYTECHNIC INSTITUTE	1,643	1,221	422	46
74 LOUISIANA STATE UNIVERSITY SYSTEM	1,638	1,287	351	79
75 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	1,589	1,037	552	20
76 NORTHWESTERN UNIVERSITY	1,536	1,407	129	197
77 FLORIDA STATE UNIVERSITY	1,516	1,191	325	52
78 JOHNS HOPKINS UNIVERSITY	1,498	1,390	108	358
79 UNIVERSITY OF VIRGINIA	1,479	1,274	205	162
80 WASHINGTON STATE UNIVERSITY	1,454	1,212	242	39
TOTAL, 1ST 80 INSTS.	214,988	152,662	62,326	12,588
81 STEVENS INSTITUTE OF TECHNOLOGY	1,433	617	816	7
82 UNIVERSITY OF NEW MEXICO	1,432	936	496	32
83 UNIVERSITY OF CHICAGO	1,427	1,401	26	228
84 UNIVERSITY OF HOUSTON	1,410	766	644	57
85 UNIVERSITY OF NEBRASKA - LINCOLN	1,365	1,061	304	54
86 WESTERN MICHIGAN UNIVERSITY	1,365	601	764	2
87 VIRGINIA COMMONWEALTH UNIVERSITY	1,355	875	480	104
88 WASHINGTON UNIVERSITY	1,341	1,076	265	373
89 UNIVERSITY OF OKLAHOMA - NORMAN	1,340	929	411	36
90 PACE UNIVERSITY	1,301	443	858	0
TOTAL, 1ST 90 INSTS.	228,757	161,367	67,390	13,481
91 OKLAHOMA STATE UNIVERSITY	1,300	1,144	156	32
92 UNIVERSITY OF CALIF AT SANTA BARBARA	1,294	1,244	50	74
93 TEMPLE UNIVERSITY	1,280	856	424	107
94 CUNY HUNTER COLLEGE	1,265	776	489	3
95 FAIRLEIGH DICKINSON UNIVERSITY	1,265	231	1,034	0
96 KANSAS STATE UNIV OF AGR & APPLIED SCI	1,249	1,034	215	46
97 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	1,241	936	305	124
98 HOWARD UNIVERSITY	1,212	978	234	17
99 UNIVERSITY OF CALIF AT SAN DIEGO	1,159	1,092	67	426
100 UNIVERSITY OF CALIF AT IRVINE	1,145	1,032	113	111
TOTAL, 1ST 100 INSTS.	241,167	170,690	70,477	14,421
101 UNIVERSITY OF DELAWARE	1,138	728	410	0
102 UNIVERSITY OF LOWELL	1,124	311	813	0
103 PRINCETON UNIVERSITY	1,099	1,099	0	160
104 GEORGETOWN UNIVERSITY	1,098	748	350	74
105 CARNEGIE-MELLON UNIVERSITY	1,093	860	233	106
106 DE PAUL UNIVERSITY	1,087	469	618	0
107 SUNY - BINGHAMTON	1,078	619	459	13
108 VILLANOVA UNIVERSITY	1,075	189	886	0
109 UNIVERSITY OF LOUISVILLE	1,061	686	375	27
110 DREXEL UNIVERSITY	1,051	369	682	21
TOTAL, 1ST 110 INSTS.	252,071	176,768	75,303	14,822
111 UNIVERSITY OF RHODE ISLAND	1,049	683	366	21
112 SOUTHERN ILLINOIS UNIV AT CARBONDALE	1,044	655	389	0
113 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	1,041	664	377	5
114 LOMA LINDA UNIVERSITY	1,025	419	606	71
115 UNIVERSITY OF ROCHESTER	1,017	826	191	189
116 UNIVERSITY OF AKRON	998	536	462	12
117 TEXAS TECH UNIVERSITY	998	838	160	27
118 UNIVERSITY OF ARKANSAS	974	773	201	22
119 UTAH STATE UNIVERSITY	965	852	113	36
120 TULANE UNIVERSITY OF LOUISIANA	962	664	298	30
TOTAL, 1ST 120 INSTS.	262,144	183,678	78,466	15,235

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

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INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
121 UNIVERSITY OF SANTA CLARA	957	15	942	0
122 CLEMSON UNIVERSITY	947	712	235	5
123 UNIVERSITY OF DENVER	942	745	197	13
124 AUBURN UNIVERSITY	934	746	188	13
125 UNIVERSITY OF CALIF AT RIVERSIDE	931	890	41	64
126 DUKE UNIVERSITY	931	875	56	265
127 NORTHERN ILLINOIS UNIVERSITY	923	540	383	6
128 UNIVERSITY OF MIAMI	906	642	264	74
129 OLD DOMINION UNIVERSITY	902	442	460	4
130 CALIFORNIA INSTITUTE OF TECHNOLOGY	897	897	0	188
TOTAL, 1ST 130 INSTS.	271,414	190,182	81,232	15,867
131 UNIVERSITY OF SOUTH FLORIDA	887	452	435	8
132 ST JOHN'S UNIVERSITY	887	264	623	0
133 US NAVAL POSTGRADUATE SCHOOL	859	859	0	4
134 UNIVERSITY OF CALIF AT SAN FRANCISCO	857	839	18	529
135 SOUTHERN METHODIST UNIVERSITY	857	257	600	7
136 BRIGHAM YOUNG UNIVERSITY	855	573	282	16
137 CLEVELAND STATE UNIVERSITY	854	233	621	3
138 LOYOLA UNIVERSITY OF CHICAGO	851	456	395	19
139 UNIVERSITY OF MISSOURI - ROLLA	849	514	335	4
140 NEW JERSEY INSTITUTE OF TECHNOLOGY	830	137	693	0
TOTAL, 1ST 140 INSTS.	280,000	194,766	85,234	16,457
141 MISSISSIPPI STATE UNIVERSITY	809	632	177	3
142 OHIO UNIVERSITY	805	695	110	6
143 NOVA UNIVERSITY	805	490	315	0
144 NEW YORK INSTITUTE OF TECHNOLOGY	804	133	671	0
145 MEMPHIS STATE UNIVERSITY	799	463	336	1
146 LEHIGH UNIVERSITY	791	475	316	12
147 WORCESTER POLYTECHNIC INSTITUTE	790	190	600	4
148 US INTERNATIONAL UNIVERSITY	774	474	300	0
149 WICHITA STATE UNIVERSITY	773	314	459	0
150 UNIV OF TEXAS AT DALLAS	772	424	348	13
TOTAL, 1ST 150 INSTS.	287,922	199,056	88,866	16,496
151 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	771	517	254	0
152 SUNY - ALBANY	756	436	320	0
153 UNIVERSITY OF IDAHO	755	474	281	13
154 ADELPHI UNIVERSITY	751	268	483	89
155 ST LOUIS UNIVERSITY	740	454	286	38
156 UNIV OF ILLINOIS MED CENTER - CHICAGO	738	439	299	94
157 NORTH TEXAS STATE UNIVERSITY	732	540	192	12
158 UNIVERSITY OF WYOMING	730	665	65	11
159 KENT STATE UNIVERSITY	727	450	277	0
160 NEW MEXICO STATE UNIVERSITY	714	518	196	16
TOTAL, 1ST 160 INSTS.	295,336	203,817	91,519	16,769
161 PORTLAND STATE UNIVERSITY	699	403	296	0
162 UNIVERSITY OF MARYLAND - BALT PROF SCH	698	362	336	50
163 BROWN UNIVERSITY	689	618	71	74
164 GEORGIA STATE UNIVERSITY	681	392	289	9
165 UNIVERSITY OF OREGON	679	615	64	59
166 VANDERBILT UNIVERSITY	666	603	63	192
167 UNIVERSITY OF DAYTON	665	156	509	0
168 UNIVERSITY OF MISSOURI - KANSAS CITY	650	221	429	13
169 UNIVERSITY OF NEBRASKA - OMAHA	645	278	367	0
170 FORDHAM UNIVERSITY	626	360	266	5
TOTAL, 1ST 170 INSTS.	302,034	207,825	94,209	17,171
171 THE UNIVERSITY OF ALABAMA	618	523	95	9
172 UNIVERSITY OF NOTRE DAME	605	562	43	33
173 UNIVERSITY OF TOLEDO	602	349	253	1
174 RICE UNIVERSITY	586	544	42	66
175 NORTH DAKOTA STATE UNIVERSITY	581	488	93	15
176 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	565	398	167	69
177 ATLANTA UNIVERSITY	561	455	106	1
178 WRIGHT STATE UNIVERSITY	555	300	255	5
179 UNIVERSITY OF MISSISSIPPI	554	479	75	30
180 UNIVERSITY OF OKLAHOMA HEALTH SCI CENTER	552	335	217	14
TOTAL, 1ST 180 INSTS.	307,813	212,258	95,555	17,414

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
181 UNIVERSITY OF NEVADA AT RENO	541	418	123	17
182 CUNY CITY COLLEGE	536	160	376	37
183 MIAMI UNIVERSITY	532	435	97	7
184 BALL STATE UNIVERSITY	531	251	280	0
185 GEORGE MASON UNIVERSITY	528	125	403	0
186 MARQUETTE UNIVERSITY	525	319	206	12
187 COLORADO SCHOOL OF MINES	525	392	133	0
188 UNIVERSITY OF SOUTHWESTERN LOUISIANA	519	355	164	0
189 UNIV OF TEXAS AT EL PASO	507	235	272	3
190 UNIVERSITY OF NEW HAMPSHIRE	506	394	112	5
TOTAL, 1ST 190 INSTS.	313,063	215,342	97,721	17,495
191 UNIV OF NORTH CAROLINA AT GREENSBORO	504	227	277	0
192 TUFTS UNIVERSITY	504	387	117	76
193 YESHIVA UNIVERSITY	497	410	87	222
194 EMORY UNIVERSITY	497	335	162	53
195 CENTRAL MICHIGAN UNIVERSITY	497	285	212	0
196 UNIVERSITY OF CENTRAL FLORIDA	494	221	273	0
197 BOSTON COLLEGE	475	421	54	15
198 UNIVERSITY OF NEW ORLEANS	474	240	234	5
199 BOWLING GREEN STATE UNIVERSITY	472	389	83	2
200 UNIVERSITY OF SOUTHERN MISSISSIPPI	467	330	137	3
TOTAL, 1ST 200 INSTS.	317,944	218,587	99,357	17,871
201 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	456	168	288	9
202 NORTHERN ARIZONA UNIVERSITY	430	242	188	1
203 MONTANA STATE UNIVERSITY	417	395	22	19
204 ILLINOIS STATE UNIVERSITY	403	270	133	6
205 SUNY - COLL OF ENV SCIENCE AND FORESTRY	399	292	107	20
206 EAST TEXAS STATE UNIVERSITY	397	162	235	0
207 HOFSTRA UNIVERSITY	396	289	107	0
208 UNIVERSITY OF MAINE AT ORONO	395	313	82	1
209 UNIVERSITY OF DETROIT	390	150	240	0
210 UNIVERSITY OF MONTANA	388	351	37	3
TOTAL, 1ST 210 INSTS.	322,015	221,219	100,796	17,930
211 AIR FORCE INSTITUTE OF TECHNOLOGY	388	388	0	0
212 THE FIELDING INSTITUTE	377	377	0	0
213 CARIBBEAN CTR FOR ADV STD	368	280	88	0
214 UNIVERSITY OF CALIF AT SANTA CRUZ	363	363	0	33
215 FLORIDA ATLANTIC UNIVERSITY	348	108	240	3
216 UNION OF EXPERIMENTNG COLLEGES & UNIVS	345	345	0	0
217 COLLEGE OF WILLIAM AND MARY	333	255	78	5
218 UNIVERSITY OF NORTH DAKOTA	332	270	62	10
219 RUSH UNIVERSITY	331	191	140	26
220 GOLDEN GATE UNIVERSITY	331	55	276	0
TOTAL, 1ST 220 INSTS.	325,531	223,851	101,680	18,007
221 EAST CAROLINA UNIVERSITY	327	187	140	14
222 CALIF SCH OF PROF PSYCH - LOS ANGELES	326	264	62	0
223 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	323	128	195	9
224 BRANDEIS UNIVERSITY	317	311	6	70
225 UNIVERSITY OF ALASKA AT FAIRBANKS	317	229	88	3
226 OAKLAND UNIVERSITY	315	132	183	3
227 SOUTH DAKOTA STATE UNIVERSITY	315	221	94	1
228 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	296	253	43	8
229 CALIF SCH OF PROF PSYCH - SAN DIEGO	288	237	51	0
230 SETON HALL UNIVERSITY	286	119	167	1
TOTAL, 1ST 230 INSTS.	328,641	225,932	102,709	18,116
231 MICHIGAN TECHNOLOGICAL UNIVERSITY	283	271	12	0
232 UNIVERSITY OF MISSOURI - ST LOUIS	281	83	198	3
233 CLARKSON COLLEGE OF TECHNOLOGY	279	221	58	25
234 SAM HOUSTON STATE UNIVERSITY	278	142	136	1
235 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	276	149	127	0
236 UNIVERSITY OF PUERTO RICO	268	185	83	0
237 MARSHALL UNIVERSITY	265	142	123	0
238 INDIANA STATE UNIVERSITY	265	185	80	2
239 UNIVERSITY OF NEBRASKA MEDICAL CENTER	265	145	120	29
240 DUQUESNE UNIVERSITY	263	110	153	0
TOTAL, 1ST 240 INSTS.	331,364	227,565	103,799	18,176

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
241 STEPHEN F. AUSTIN STATE UNIVERSITY	259	178	81	3
242 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	258	156	102	91
243 UNIVERSITY OF TULSA	254	120	134	0
244 CALIF SCH OF PROF PSYCH - BERKELEY	244	244	0	0
245 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	240	215	25	151
246 HAHNEMANN UNIVERSITY	233	229	4	5
247 DARTMOUTH COLLEGE	227	219	8	33
248 EAST TENNESSEE STATE UNIVERSITY	212	137	75	3
249 IDAHO STATE UNIVERSITY	205	147	58	0
250 THE WRIGHT INSTITUTE	202	193	9	0
TOTAL, 1ST 250 INSTS.	333,698	229,403	104,295	18,462
251 BAYLOR UNIVERSITY	199	173	26	5
252 SOUTH DAKOTA SCHOOL OF MINES AND TECH	193	151	42	0
253 CALIF SCH OF PROF PSYCH - FRESNO	193	193	0	0
254 TEXAS A & I UNIVERSITY	192	157	35	0
255 SMITH COLLEGE	191	189	2	0
256 LAMAR UNIVERSITY	191	158	33	14
257 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	190	91	99	2
258 CLARK UNIVERSITY	190	181	9	1
259 BRYN MAWR COLLEGE	190	91	99	0
260 TEXAS CHRISTIAN UNIVERSITY	183	97	86	0
TOTAL, 1ST 260 INSTS.	335,610	230,884	104,726	18,484
261 BIOLA COLLEGE	181	154	27	0
262 FULLER THEOLOGICAL SEMINARY	180	179	1	0
263 TENNESSEE TECHNOLOGICAL UNIVERSITY	176	96	80	0
264 WAKE FOREST UNIVERSITY	174	117	57	24
265 UNIV OF MED AND DENT OF NEW JERSEY	172	148	24	31
266 NEW YORK MEDICAL COLLEGE	169	50	119	16
267 UNIVERSITY OF SOUTH DAKOTA	164	141	23	2
268 UNIVERSITY OF SOUTH ALABAMA	162	104	58	13
269 LOUISIANA TECH UNIVERSITY	154	125	29	0
270 NEW MEXICO INSTITUTE OF MINING AND TECH	150	150	0	4
TOTAL, 1ST 270 INSTS.	337,292	232,148	105,144	18,574
271 MEDICAL COLLEGE OF GEORGIA	143	97	46	26
272 UNIV OF TEXAS MED BRANCH AT GALVESTON	138	129	9	59
273 BAYLOR COLLEGE OF MEDICINE	127	127	0	310
274 UNION COLLEGE(NY)	123	30	93	0
275 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCES	116	86	30	44
276 NORTHEAST LOUISIANA UNIVERSITY	115	98	17	0
277 CALIFORNIA INSTITUTE OF ASIAN STUDIES	112	69	43	0
278 WESLEYAN UNIVERSITY	111	106	5	5
279 ROCKEFELLER UNIVERSITY	107	96	11	191
280 MEDICAL UNIVERSITY OF SOUTH CAROLINA	105	82	23	32
TOTAL, 1ST 280 INSTS.	338,489	233,068	105,421	19,241
281 INSTITUTE OF PAPER CHEMISTRY	101	101	0	2
282 UNIVERSITY OF NORTHERN COLORADO	98	78	20	0
283 WOODS HOLE OCEANOGRAPHIC INSTITUTION	91	91	0	8
284 UNIVERSITY OF HEALTH SCIENCES	82	77	5	10
285 SUNY - DOWNSTATE MEDICAL CENTER	80	78	2	20
286 ALFRED UNIVERSITY	76	67	9	0
287 UNIVERSITY OF NORTHERN IOWA	76	48	28	0
288 UNIVERSITY OF THE PACIFIC	74	44	30	0
289 THOMAS JEFFERSON UNIVERSITY	67	54	13	15
290 MEDICAL COLLEGE OF WISCONSIN	66	59	7	21
TOTAL, 1ST 290 INSTS.	339,300	233,765	105,535	19,317
291 MASSACHUSETTS COLLEGE OF PHARMACY	62	53	9	1
292 HEED UNIVERSITY	59	59	0	0
293 OREGON GRADUATE CENTER	58	43	15	6
294 OREGON HEALTH SCIENCES UNIVERSITY	53	48	5	22
295 SUNY - UPSTATE MEDICAL CENTER	52	35	17	21
296 CREIGHTON UNIVERSITY	52	48	4	2
297 EASTERN VIRGINIA MEDICAL SCHOOL	51	50	1	0
298 ALBANY MEDICAL COLLEGE	51	50	1	49
299 RAND GRADUATE INSTITUTE POLICY STUDIES	51	51	0	0
300 THE MEDICAL COLLEGE OF PENNSYLVANIA	49	19	30	12
TOTAL, 1ST 300 INSTS.	339,838	234,221	105,617	19,430

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
301 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	45	45	0	48
302 PHILADELPHIA COLL OF PHARMACY AND SCI	42	31	11	0
303 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	42	42	0	0
304 MEDICAL COLLEGE OF OHIO AT TOLEDO	41	31	10	1
305 MEHARRY MEDICAL COLLEGE	34	34	0	3
306 ORAL ROBERTS UNIVERSITY	28	21	7	1
307 ST BONAVENTURE UNIVERSITY	23	18	5	0
308 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	23	22	1	56
309 NE OHIO UNIV COL OF MEDICINE	21	21	0	1
310 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	21	9	12	4
TOTAL, 1ST 310 INSTS.	340,158	234,495	105,663	19,544
311 INSTITUTE OF TEXTILE TECHNOLOGY	17	17	0	0
312 CATHOLIC UNIVERSITY OF PUERTO RICO	14	10	4	0
313 SUNY STATE COLLEGE OF OPTOMETRY	6	3	3	1
314 CHICAGO COLL OF OSTEO MEDICINE	4	4	0	0
315 BAYLOR COLLEGE OF DENTISTRY	3	0	3	0
316 PROVIDENCE COLLEGE	1	0	1	0
317 OKLAHOMA COLL OF OSTEO MED & SURGERY	0	0	0	3
318 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0
319 UNIV OF TEXAS CANCER CENTER	0	0	0	49
320 CUNY MOUNT SINAI SCHOOL OF MEDICINE	0	0	0	55
TOTAL, 1ST 320 INSTS.	340,203	234,529	105,674	19,652
321 COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0	0	0
322 KANSAS CITY COLL OF OSTEOPATHIC MEDICINE	0	0	0	0
323 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0	3
324 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0
TOTAL, 1ST 324 INSTS.	340,203	234,529	105,674	19,655

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	122,464	79,158	39,214	4,092
1 UNIVERSITY OF SOUTHERN CALIFORNIA	2,198	1,119	1,025	54
2 UNIVERSITY OF PITTSBURGH	1,906	958	933	15
3 UNIVERSITY OF MINNESOTA	1,848	1,450	324	74
4 UNIVERSITY OF CALIF AT BERKELEY	1,839	1,755	0	84
5 UNIVERSITY OF WISCONSIN - MADISON	1,792	1,400	291	101
6 UNIVERSITY OF WASHINGTON	1,739	1,291	355	93
7 NEW YORK UNIVERSITY	1,731	539	1,138	54
8 UNIVERSITY OF CALIF AT LOS ANGELES	1,697	1,558	42	97
9 BOSTON UNIVERSITY	1,621	1,017	584	20
10 RUTGERS THE STATE UNIVERSITY	1,595	601	972	22
TOTAL, 1ST 10 INSTS.	17,966	11,688	5,664	614
11 OHIO STATE UNIVERSITY	1,545	1,195	314	36
12 TEXAS WOMAN'S UNIVERSITY	1,432	532	900	0
13 UNIVERSITY OF COLORADO	1,409	999	355	55
14 COLUMBIA UNIV TEACHERS COLLEGE	1,338	538	800	0
15 UNIV OF TEXAS AT AUSTIN	1,267	1,048	200	19
16 UNIVERSITY OF ILLINOIS - URBANA	1,242	1,064	129	49
17 UNIVERSITY OF MICHIGAN	1,223	1,090	90	43
18 UNIV OF NORTH CAROLINA AT CHAPEL HILL	1,193	1,019	131	43
19 WEST VIRGINIA UNIVERSITY	1,111	336	770	5
20 HARVARD UNIVERSITY	1,093	811	27	255
TOTAL, 1ST 20 INSTS.	30,819	20,320	9,380	1,119
21 LONG ISLAND UNIVERSITY	1,068	153	915	0
22 INDIANA UNIVERSITY, ALL CAMPUSES	1,066	581	447	38
23 COLUMBIA UNIV MAIN DIVISION	1,018	690	251	77
24 UNIVERSITY OF TENNESSEE AT KNOXVILLE	1,014	669	327	18
25 MICHIGAN STATE UNIVERSITY	998	799	170	29
26 PENNSYLVANIA STATE UNIVERSITY	987	705	260	22
27 CORNELL UNIVERSITY	983	899	4	80
28 UNIVERSITY OF CONNECTICUT	976	798	155	23
29 UNIVERSITY OF ARIZONA	968	653	282	33
30 NORTHEASTERN UNIVERSITY	966	288	672	6
TOTAL, 1ST 30 INSTS.	40,863	26,555	12,863	1,445
31 SUNY - STONY BROOK	948	650	267	31
32 UNIVERSITY OF MARYLAND - COLLEGE PARK	924	530	374	20
33 UNIVERSITY OF KANSAS	915	646	242	27
34 CATHOLIC UNIVERSITY OF AMERICA	897	429	465	3
35 UNIVERSITY OF PENNSYLVANIA	886	633	165	88
36 UNIVERSITY OF CALIF AT DAVIS	878	809	34	35
37 CUNY HUNTER COLLEGE	874	514	358	2
38 TEXAS A & M UNIVERSITY	871	660	203	8
39 VIRGINIA COMMONWEALTH UNIVERSITY	861	524	315	22
40 PURDUE UNIVERSITY	856	718	111	27
TOTAL, 1ST 40 INSTS.	49,773	32,668	15,397	1,708
41 SAN DIEGO STATE UNIVERSITY	855	597	256	2
42 PACE UNIVERSITY	850	354	496	0
43 UNIVERSITY OF HAWAII AT MANOA	844	731	110	3
44 STANFORD UNIVERSITY	837	644	79	114
45 UNIVERSITY OF WISCONSIN - MILWAUKEE	832	420	409	3
46 WAYNE STATE UNIVERSITY	816	447	350	19
47 SUNY - BUFFALO	815	458	334	23
48 UNIVERSITY OF FLORIDA	815	639	154	22
49 ARIZONA STATE UNIVERSITY	814	444	355	15
50 CUNY GRADUATE SCHOOL AND UNIV CENTER	814	741	64	9
TOTAL, 1ST 50 INSTS.	58,065	38,143	18,004	1,918
51 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	799	613	163	23
52 UNIVERSITY OF CINCINNATI	773	486	268	19
53 CASE WESTERN RESERVE UNIVERSITY	750	507	200	43
54 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	745	606	60	79
55 UNIVERSITY OF CALIF AT SAN FRANCISCO	739	608	15	116
56 YALE UNIVERSITY	738	586	14	138
57 UNIVERSITY OF MASSACHUSETTS AT AMHERST	729	616	93	20
58 UNIVERSITY OF IOWA	710	470	202	38
59 UNIVERSITY OF UTAH	706	467	210	29
60 UNIV OF TEXAS AT ARLINGTON	701	335	363	3
TOTAL, 1ST 60 INSTS.	65,455	43,437	19,592	2,426

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TABLE F-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
61 UNIVERSITY OF SOUTH CAROLINA	700	455	236	9
62 AMERICAN UNIVERSITY	694	206	485	3
63 JOHNS HOPKINS UNIVERSITY	684	547	52	85
64 IOWA STATE UNIVERSITY OF SCI & TECH	675	530	132	13
65 SYRACUSE UNIVERSITY	674	485	177	12
66 UNIVERSITY OF KENTUCKY	660	442	202	16
67 UNIVERSITY OF GEORGIA	657	582	60	15
68 FLORIDA STATE UNIVERSITY	652	475	171	6
69 UNIVERSITY OF MISSOURI - COLUMBIA	641	474	154	13
70 NEW SCHOOL FOR SOCIAL RESEARCH	633	253	380	0
TOTAL, 1ST 70 INSTS.	72,125	47,886	21,641	2,598
71 FLORIDA INSTITUTE OF TECHNOLOGY	631	135	496	0
72 TEMPLE UNIVERSITY	614	411	176	27
73 WASHINGTON UNIVERSITY	609	447	96	66
74 GEORGE WASHINGTON UNIVERSITY	602	199	401	2
75 WESTERN MICHIGAN UNIVERSITY	601	287	312	2
76 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	597	379	218	0
77 VIRGINIA POLYTECHNIC INST AND STATE UNIV	580	446	129	5
78 NORTH CAROLINA STATE UNIV AT RALEIGH	575	453	112	10
79 UNIVERSITY OF DENVER	558	437	116	5
80 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	552	387	161	4
TOTAL, 1ST 80 INSTS.	78,044	51,467	23,858	2,719
81 ADELPHI UNIVERSITY	549	165	351	33
82 LOYOLA UNIVERSITY OF CHICAGO	542	265	273	4
83 UNIVERSITY OF MARYLAND - BALT PROF SCH	537	251	274	12
84 UNIVERSITY OF CHICAGO	528	475	11	42
85 NORTHERN ILLINOIS UNIVERSITY	518	262	255	1
86 UNIVERSITY OF VIRGINIA	518	403	84	31
87 LOMA LINDA UNIVERSITY	516	202	296	18
88 NORTHWESTERN UNIVERSITY	514	425	47	42
89 COLORADO STATE UNIVERSITY	503	396	95	12
90 FAIRLEIGH DICKINSON UNIVERSITY	500	91	409	0
TOTAL, 1ST 90 INSTS.	83,269	54,402	25,953	2,914
91 UNIV OF ILLINOIS MED CENTER - CHICAGO	491	260	211	20
92 LOUISIANA STATE UNIVERSITY SYSTEM	482	353	116	13
93 UNIVERSITY OF OKLAHOMA - NORMAN	452	289	162	1
94 UNIVERSITY OF NEW MEXICO	432	292	137	3
95 GEORGETOWN UNIVERSITY	432	291	122	19
96 UNIVERSITY OF DELAWARE	431	238	193	0
97 HOWARD UNIVERSITY	420	299	117	4
98 UNIVERSITY OF LOUISVILLE	412	255	149	8
99 UNIVERSITY OF SOUTH FLORIDA	407	239	165	3
100 DUKE UNIVERSITY	401	298	37	66
TOTAL, 1ST 100 INSTS.	87,629	57,216	27,362	3,051
101 ST LOUIS UNIVERSITY	391	215	168	8
102 UNIVERSITY OF RHODE ISLAND	391	243	147	1
103 SUNY - BINGHAMTON	386	230	154	2
104 US INTERNATIONAL UNIVERSITY	385	235	150	0
105 WASHINGTON STATE UNIVERSITY	385	318	59	8
106 KANSAS STATE UNIV OF AGR & APPLIED SCI	382	305	72	5
107 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	379	242	137	0
108 UNIVERSITY OF CALIF AT SAN DIEGO	379	280	16	83
109 KENT STATE UNIVERSITY	375	218	157	0
110 OREGON STATE UNIVERSITY	371	322	38	11
TOTAL, 1ST 110 INSTS.	91,453	59,824	28,460	3,169
111 UNIVERSITY OF CALIF AT IRVINE	368	315	31	22
112 TULANE UNIVERSITY OF LOUISIANA	365	250	110	5
113 GEORGIA STATE UNIVERSITY	364	191	171	2
114 ILLINOIS INSTITUTE OF TECHNOLOGY	362	71	290	1
115 YESHIVA UNIVERSITY	358	220	57	81
116 SOUTHERN ILLINOIS UNIV AT CARBONDALE	356	205	151	0
117 PORTLAND STATE UNIVERSITY	353	215	138	0
118 ST JOHN'S UNIVERSITY	353	97	256	0
119 UNIVERSITY OF NEBRASKA - OMAHA	352	183	169	0
120 MEMPHIS STATE UNIVERSITY	347	218	129	0
TOTAL, 1ST 120 INSTS.	95,031	61,789	29,962	3,280

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TABLE E-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
121 DE PAUL UNIVERSITY	346	147	199	0
122 UNIVERSITY OF CALIF AT SANTA BARBARA	338	322	7	9
123 NOVA UNIVERSITY	338	162	176	0
124 VILLANOVA UNIVERSITY	337	68	269	0
125 OLD DOMINION UNIVERSITY	333	157	175	1
126 UNIV OF NORTH CAROLINA AT GREENSBORO	329	159	170	0
127 UNIVERSITY OF OKLAHOMA HEALTH SCI CENTER	329	184	142	3
128 UNIVERSITY OF LOWELL	321	113	208	0
129 UNIVERSITY OF NEBRASKA - LINCOLN	321	252	59	10
130 GEORGIA INSTITUTE OF TECHNOLOGY	319	247	68	4
TOTAL, 1ST 130 INSTS.	98,342	63,600	31,435	3,307
131 UNIVERSITY OF MIAMI	313	202	99	12
132 UNIV OF TEXAS AT DALLAS	310	160	147	3
133 REMSSELAER POLYTECHNIC INSTITUTE	307	209	95	3
134 UNIVERSITY OF CALIF AT RIVERSIDE	305	283	13	9
135 UNIVERSITY OF HOUSTON	303	181	114	8
136 GEORGE MASON UNIVERSITY	303	87	216	0
137 OKLAHOMA STATE UNIVERSITY	299	252	37	10
138 RUSH UNIVERSITY	298	155	134	9
139 NEW YORK INSTITUTE OF TECHNOLOGY	294	45	249	0
140 CLEVELAND STATE UNIVERSITY	289	99	190	0
TOTAL, 1ST 140 INSTS.	101,363	65,273	32,729	3,361
141 UNIVERSITY OF AKRON	286	152	132	2
142 UNIVERSITY OF MISSOURI - KANSAS CITY	285	74	207	4
143 WICHITA STATE UNIVERSITY	279	130	149	0
144 SUNY - ALBANY	278	149	129	0
145 UNIVERSITY OF ROCHESTER	277	194	50	33
146 PRINCETON UNIVERSITY	273	248	0	25
147 NORTH TEXAS STATE UNIVERSITY	269	183	85	1
148 UTAH STATE UNIVERSITY	265	216	45	4
149 OHIO UNIVERSITY	264	226	37	1
150 BOSTON COLLEGE	264	239	24	1
TOTAL, 1ST 150 INSTS.	104,103	67,084	33,587	3,432
151 BALL STATE UNIVERSITY	263	109	154	0
152 STEVENS INSTITUTE OF TECHNOLOGY	260	163	97	0
153 EMORY UNIVERSITY	249	149	83	17
154 BRIGHAM YOUNG UNIVERSITY	248	146	100	2
155 TEXAS TECH UNIVERSITY	242	195	42	5
156 CARIBBEAN CTR FOR ADV STD	242	179	63	0
157 FORDHAM UNIVERSITY	241	154	87	0
158 TUFTS UNIVERSITY	239	165	54	20
159 ATLANTA UNIVERSITY	235	184	51	0
160 UNIVERSITY OF SOUTHERN MISSISSIPPI	232	150	82	0
TOTAL, 1ST 160 INSTS.	106,554	68,678	34,400	3,476
161 AUBURN UNIVERSITY	231	174	53	4
162 CLEMSON UNIVERSITY	224	176	47	1
163 POLYTECHNIC INSTITUTE OF NEW YORK	223	44	177	2
164 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	222	162	46	14
165 UNIVERSITY OF MISSISSIPPI	221	180	35	6
166 CENTRAL MICHIGAN UNIVERSITY	220	122	98	0
167 CARNEGIE-MELLON UNIVERSITY	219	177	28	14
168 VANDERBILT UNIVERSITY	218	167	22	29
169 UNIVERSITY OF OREGON	215	185	20	10
170 MIAMI UNIVERSITY	213	169	41	3
TOTAL, 1ST 170 INSTS.	108,760	70,234	34,967	3,559
171 THE UNIVERSITY OF ALABAMA	209	173	36	0
172 UNIVERSITY OF ARKANSAS	207	161	39	7
173 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	206	102	84	20
174 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	201	166	34	1
175 WRIGHT STATE UNIVERSITY	201	115	85	1
176 UNIV OF TEXAS AT EL PASO	200	60	139	1
177 THE FIELDING INSTITUTE	200	200	0	0
178 MARQUETTE UNIVERSITY	200	123	73	4
179 CALIF SCH OF PROF PSYCH - LOS ANGELES	193	159	34	0
180 ILLINOIS STATE UNIVERSITY	190	135	52	3
TOTAL, 1ST 180 INSTS.	110,767	71,628	35,543	3,596

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TABLE E-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
181 BROWN UNIVERSITY	189	149	23	17
182 UNIVERSITY OF WYOMING	187	165	22	0
183 DREXEL UNIVERSITY	186	68	116	2
184 UNIVERSITY OF CENTRAL FLORIDA	185	105	80	0
185 UNION OF EXPERIMENTNG COLLEGES & UNIVS	184	184	0	0
186 HOFSTRA UNIVERSITY	184	135	49	0
187 UNIVERSITY OF NEW ORLEANS	177	85	91	1
188 UNIVERSITY OF NEW HAMPSHIRE	177	120	56	1
189 GOLDEN GATE UNIVERSITY	174	25	149	0
190 BOWLING GREEN STATE UNIVERSITY	171	145	26	0
TOTAL, 1ST 190 INSTS.	11 581	72,809	36,155	3,617
191 UNIVERSITY OF NOTRE DAME	170	150	11	9
192 RICE UNIVERSITY	167	143	11	13
193 UNIVERSITY OF SOUTHWESTERN LOUISIANA	163	100	63	0
194 UNIVERSITY OF NEVADA AT RENO	161	127	30	4
195 UNIVERSITY OF NEBRASKA MEDICAL CENTER	160	80	72	8
196 MISSISSIPPI STATE UNIVERSITY	159	130	29	0
197 EAST CAROLINA UNIVERSITY	158	92	64	2
198 NEW MEXICO STATE UNIVERSITY	157	110	44	3
199 NORTHERN ARIZONA UNIVERSITY	156	74	82	0
200 SOUTHERN METHODIST UNIVERSITY	156	93	63	0
TOTAL, 1ST 200 INSTS.	114,188	73,908	36,624	3,656
201 SMITH COLLEGE	156	155	1	0
202 BRANDEIS UNIVERSITY	155	137	2	16
203 SETON HALL UNIVERSITY	155	81	74	0
204 UNIVERSITY OF MONTANA	152	136	16	0
205 LEHIGH UNIVERSITY	145	80	62	3
206 CALIF SCH OF PROF PSYCH - SAN DIEGO	145	118	27	0
207 UNIVERSITY OF TOLEDO	144	90	54	0
208 BRYN MAWR COLLEGE	140	65	75	0
209 UNIVERSITY OF IDAHO	139	107	30	2
210 MARSHALL UNIVERSITY	138	69	69	0
TOTAL, 1ST 210 INSTS.	115,657	74,946	37,034	3,677
211 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	138	56	80	2
212 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	137	84	13	40
213 BAYLOR COLLEGE OF MEDICINE	135	48	0	87
214 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	133	54	79	0
215 UNIVERSITY OF DAYTON	133	44	89	0
216 EAST TEXAS STATE UNIVERSITY	131	44	87	0
217 NORTH DAKOTA STATE UNIVERSITY	130	96	32	2
218 CALIFORNIA INSTITUTE OF TECHNOLOGY	130	97	0	33
219 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	127	48	79	0
220 NEW JERSEY INSTITUTE OF TECHNOLOGY	125	17	108	0
TOTAL, 1ST 220 INSTS.	116,976	75,534	37,601	3,841
221 HAHNEMANN UNIVERSITY	124	119	3	2
222 UNIVERSITY OF MAINE AT ORONO	123	98	25	0
223 OAKLAND UNIVERSITY	120	54	63	3
224 MONTANA STATE UNIVERSITY	120	111	6	3
225 UNIVERSITY OF DETROIT	119	39	80	0
226 UNIVERSITY OF CALIF AT SANTA CRUZ	115	112	0	3
227 CALIF SCH OF PROF PSYCH - BERKELEY	113	113	0	0
228 UNIVERSITY OF SANTA CLARA	112	2	110	0
229 COLLEGE OF WILLIAM AND MARY	111	86	25	0
230 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	109	54	55	0
TOTAL, 1ST 230 INSTS.	118,142	76,322	37,968	3,852
231 UNIVERSITY OF MISSOURI - ST LOUIS	108	36	72	0
232 UNIVERSITY OF NORTH DAKOTA	108	84	23	1
233 THE WRIGHT INSTITUTE	107	102	5	0
234 UNIVERSITY OF MISSOURI - ROLLA	107	69	38	0
235 FLORIDA ATLANTIC UNIVERSITY	107	43	63	1
236 COLORADO SCHOOL OF MINES	107	76	31	0
237 UNIVERSITY OF ALASKA AT FAIRBANKS	102	81	21	0
238 CALIF SCH OF PROF PSYCH - FRESNO	102	102	0	0
239 CUNY CITY COLLEGE	98	19	77	2
240 BIOLA COLLEGE	97	82	15	0
TOTAL, 1ST 240 INSTS.	119,185	77,016	38,313	3,856

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TABLE E-4, DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
241 DUQUESNE UNIVERSITY	97	41	56	0
242 MEDICAL COLLEGE OF GEORGIA	96	59	34	3
243 UMIV OF MED AND DENT OF NEW JERSEY	94	71	13	10
244 SUNY - COLL OF ENV SCIENCE AND FORESTRY	94	65	28	1
245 ROCKEFELLER UNIVERSITY	88	28	4	56
246 UNIV OF TEXAS MED BRANCH AT GALVESTON	88	64	8	16
247 UNIVERSITY OF SOUTH ALABAMA	87	49	35	3
248 WAKE FOREST UNIVERSITY	87	50	30	7
249 INDIANA STATE UNIVERSITY	87	65	22	0
250 UNIVERSITY OF PUERTO RICO	86	66	20	0
TOTAL, 1ST 250 INSTS.	120,089	77,574	38,563	3,952
251 WORCESTER POLYTECHNIC INSTITUTE	86	24	61	1
252 SOUTH DAKOTA STATE UNIVERSITY	86	53	33	0
253 SAM HOUSTON STATE UNIVERSITY	84	30	54	0
254 BAYLOR UNIVERSITY	84	73	10	1
255 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	78	48	20	10
256 NEW YORK MEDICAL COLLEGE	76	21	51	4
257 UNIVERSITY OF SOUTH DAKOTA	72	55	16	1
258 TEXAS CHRISTIAN UNIVERSITY	68	42	26	0
259 STEPHEN F. AUSTIN STATE UNIVERSITY	66	48	17	1
260 CLARK UNIVERSITY	64	59	5	0
TOTAL, 1ST 260 INSTS.	120,853	78,027	38,856	3,970
261 EAST TENNESSEE STATE UNIVERSITY	63	38	25	0
262 DARTMOUTH COLLEGE	62	52	1	9
263 CALIFORNIA INSTITUTE OF ASIAN STUDIES	61	37	24	0
264 IDAHO STATE UNIVERSITY	59	34	25	0
265 LAMAR UNIVERSITY	56	40	15	1
266 MEDICAL UNIVERSITY OF SOUTH CAROLINA	54	35	14	5
267 UNIVERSITY OF TULSA	52	28	24	0
268 FULLER THEOLOGICAL SEMINARY	51	50	1	0
269 TEXAS A & I UNIVERSITY	47	35	12	0
270 UNIVERSITY OF THE PACIFIC	46	24	22	0
TOTAL, 1ST 270 INSTS.	121,404	78,400	39,019	3,985
271 LOUISIANA TECH UNIVERSITY	45	34	11	0
272 CLARKSON COLLEGE OF TECHNOLOGY	42	27	10	5
273 UNIVERSITY OF NORTHERN IOWA	41	32	9	0
274 NORTHEAST LOUISIANA UNIVERSITY	40	33	7	0
275 WESLEYAN UNIVERSITY	39	35	3	1
276 THE MEDICAL COLLEGE OF PENNSYLVANIA	39	7	26	6
277 US NAVAL POSTGRADUATE SCHOOL	38	38	0	0
278 UNIVERSITY OF NORTHERN COLORADO	37	30	7	0
279 THOMAS JEFFERSON UNIVERSITY	36	24	11	1
280 EASTERN VIRGINIA MEDICAL SCHOOL	34	33	1	0
TOTAL, 1ST 280 INSTS.	121,795	78,693	39,104	3,998
281 MICHIGAN TECHNOLOGICAL UNIVERSITY	33	30	3	0
282 UNIVERSITY OF HEALTH SCIENCES	32	30	2	0
283 TENNESSEE TECHNOLOGICAL UNIVERSITY	32	15	17	0
284 UNION COLLEGE(NY)	31	8	23	0
285 OREGON HEALTH SCIENCES UNIVERSITY	31	18	4	9
286 REED UNIVERSITY	31	31	0	0
287 ALBANY MEDICAL COLLEGE	30	16	1	13
288 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	30	18	0	12
289 SUNY - DOWNSTATE MEDICAL CENTER	30	26	1	3
290 SUNY - UPSTATE MEDICAL CENTER	29	17	10	2
TOTAL, 1ST 290 INSTS.	122,104	78,902	39,165	4,037
291 WOODS HOLE OCEANOGRAPHIC INSTITUTION	28	26	0	2
292 MEDICAL COLLEGE OF WISCONSIN	25	17	6	2
293 NEW MEXICO INSTITUTE OF MINING AND TECH	25	25	0	0
294 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	23	6	0	17
295 ALFRED UNIVERSITY	22	21	1	0
296 MASSACHUSETTS COLLEGE OF PHARMACY	19	17	2	0
297 MEHARRY MEDICAL COLLEGE	18	17	[illegible]	1
298 SOUTH DAKOTA SCHOOL OF MINES AND TECH	18	11	[illegible]	0
299 MEDICAL COLLEGE OF OHIO AT TOLEDO	18	13	5	0
300 INSTITUTE OF PAPER CHEMISTRY	17	17	0	0
TOTAL, 1ST 300 INSTS.	122,317	79,072	39,186	4,059

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
301 UNIV OF TEXAS CANCER CENTER	17	0	0	17
302 CUNY MOUNT SINAI SCHOOL OF MEDICINE	15	0	0	15
303 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	15	15	0	0
304 CATHOLIC UNIVERSITY OF PUERTO RICO	14	10	4	0
305 PHILADELPHIA COLL OF PHARMACY AND SCI	14	10	4	0
306 ORAL ROBERTS UNIVERSITY	13	7	6	0
307 OREGON GRADUATE CENTER	11	8	3	0
308 CREIGHTON UNIVERSITY	11	10	1	0
309 NE OHIO UNIV COL OF MEDICINE	8	8	0	0
310 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	8	3	4	1
TOTAL, 1ST 310 INSTS.	122,443	79,143	39,208	4,092
311 ST BONAVENTURE UNIVERSITY	6	4	2	0
312 RAND GRADUATE INSTITUTE POLICY STUDIES	6	6	0	0
313 INSTITUTE OF TEXTILE TECHNOLOGY	3	3	0	0
314 SUNY STATE COLLEGE OF OPTOMETRY	3	1	2	0
315 PROVIDENCE COLLEGE	1	0	1	0
316 CHICAGO COLL OF OSTEO MEDICINE	1	1	0	0
317 BAYLOR COLLEGE OF DENTISTRY	1	0	1	0
318 OKLAHOMA COLL OF OSTEO MED & SURGERY	0	0	0	0
319 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0
320 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0	0
TOTAL, 1ST 320 INSTS.	122,464	79,158	39,214	4,092
321 COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0	0	0
322 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0
323 AIR FORCE INSTITUTE OF TECHNOLOGY	0	0	0	0
324 KANSAS CITY COLL OF OSTEOPATHIC MEDICINE	0	0	0	0
TOTAL, 1ST 324 INSTS.	122,464	79,158	39,214	4,092

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
TOTAL, ALL INSTITUTIONS	8,843	5,351	3,492
1 UNIVERSITY OF SOUTHERN CALIFORNIA	594	170	424
2 HOWARD UNIVERSITY	510	393	117
3 LONG ISLAND UNIVERSITY	337	20	317
4 ATLANTA UNIVERSITY	281	233	48
5 OHIO STATE UNIVERSITY	163	140	23
6 UNIVERSITY OF PITTSBURGH	155	96	59
7 UNIV OF NORTH CAROLINA AT CHAPEL HILL	145	125	20
8 UNIVERSITY OF CALIF AT BERKELEY	145	145	0
9 UNIVERSITY OF MARYLAND - COLLEGE PARK	136	83	53
10 UNIVERSITY OF MICHIGAN	136	129	7
TOTAL, 1ST 10 INSTS.	2,602	1,534	1,068
11 GEORGE WASHINGTON UNIVERSITY	131	27	104
12 CUNY HUNTER COLLEGE	117	66	51
13 TEMPLE UNIVERSITY	112	74	38
14 UNIVERSITY OF TENNESSEE AT KNOXVILLE	111	81	30
15 VIRGINIA COMMONWEALTH UNIVERSITY	111	65	46
16 UNIVERSITY OF CINCINNATI	101	56	45
17 TEXAS WOMAN'S UNIVERSITY	99	27	72
18 UNIVERSITY OF SOUTH CAROLINA	97	54	43
19 FLORIDA INSTITUTE OF TECHNOLOGY	97	11	86
20 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	87	76	11
TOTAL, 1ST 20 INSTS.	3,665	2,071	1,594
21 NORTH CAROLINA STATE UNIV AT RALEIGH	86	62	24
22 DE PAUL UNIVERSITY	84	18	66
23 BOSTON UNIVERSITY	83	66	17
24 US INTERNATIONAL UNIVERSITY	81	48	33
25 UNIVERSITY OF CALIF AT LOS ANGELES	80	78	2
26 FLORIDA STATE UNIVERSITY	80	63	17
27 SUNY - STONY BROOK	79	51	28
28 WAYNE STATE UNIVERSITY	77	44	33
29 ILLINOIS INSTITUTE OF TECHNOLOGY	77	15	62
30 MICHIGAN STATE UNIVERSITY	75	68	7
TOTAL, 1ST 30 INSTS.	4,467	2,584	1,883
31 UNIVERSITY OF WASHINGTON	72	53	19
32 AMERICAN UNIVERSITY	71	29	42
33 UNIVERSITY OF ILLINOIS - URBANA	67	61	6
34 UNIVERSITY OF FLORIDA	67	56	11
35 UNIVERSITY OF GEORGIA	67	60	7
36 PENNSYLVANIA STATE UNIVERSITY	66	46	20
37 WASHINGTON UNIVERSITY	66	64	2
38 GEORGIA STATE UNIVERSITY	65	24	41
39 HARVARD UNIVERSITY	65	64	1
40 MEMPHIS STATE UNIVERSITY	64	17	47
TOTAL, 1ST 40 INSTS.	5,137	3,058	2,079
41 RUTGERS THE STATE UNIVERSITY	64	28	36
42 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	64	43	21
43 CORNELL UNIVERSITY	62	62	0
44 UNIVERSITY OF MINNESOTA	62	54	8
45 WESTERN MICHIGAN UNIVERSITY	60	20	40
46 GEORGIA INSTITUTE OF TECHNOLOGY	58	43	15
47 NEW YORK INSTITUTE OF TECHNOLOGY	58	15	43
48 UNIV OF TEXAS AT ARLINGTON	57	24	33
49 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	55	20	35
50 PURDUE UNIVERSITY	55	35	20
TOTAL, 1ST 50 INSTS.	5,732	3,402	2,330
51 UNIV OF TEXAS AT AUSTIN	54	45	9
52 CARNEGIE-MELLON UNIVERSITY	54	52	2
53 UNIVERSITY OF WISCONSIN - MILWAUKEE	52	25	27
54 UNIVERSITY OF HOUSTON	49	28	21
55 CASE WESTERN RESERVE UNIVERSITY	48	39	9
56 LOMA LINDA UNIVERSITY	45	19	26
57 CUNY CITY COLLEGE	45	11	34
58 UNIVERSITY OF KENTUCKY	45	33	12
59 CLEVELAND STATE UNIVERSITY	44	14	30
60 UNIVERSITY OF MASSACHUSETTS AT AMHERST	44	36	8
TOTAL, 1ST 60 INSTS.	6,212	3,704	2,508

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
61 WEST VIRGINIA UNIVERSITY	43	9	34
62 STANFORD UNIVERSITY	43	41	2
63 LOUISIANA STATE UNIVERSITY SYSTEM	43	28	15
64 EMORY UNIVERSITY	43	26	17
65 UNIVERSITY OF SOUTHERN MISSISSIPPI	43	20	23
66 THE UNIVERSITY OF ALABAMA	42	37	5
67 ST LOUIS UNIVERSITY	42	21	21
68 UNIV OF NORTH CAROLINA AT GREENSBORO	42	20	22
69 UNIVERSITY OF LOUISVILLE	42	25	17
70 UNIVERSITY OF OKLAHOMA - NORMAN	41	29	12
TOTAL, 1ST 70 INSTS.	6,636	3,960	2,676
71 UNIVERSITY OF NEW ORLEANS	41	14	27
72 FORDHAM UNIVERSITY	40	16	24
73 UNIVERSITY OF OKLAHOMA HEALTH SCI CENTER	38	18	20
74 SUNY - BUFFALO	37	22	15
75 ST JOHN'S UNIVERSITY	37	5	32
76 UNIVERSITY OF WISCONSIN - MADISON	36	34	2
77 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	35	17	18
78 MISSISSIPPI STATE UNIVERSITY	34	26	8
79 OLD DOMINION UNIVERSITY	33	10	23
80 RENSSELAER POLYTECHNIC INSTITUTE	33	23	10
TOTAL, 1ST 80 INSTS.	7,000	4,145	2,855
81 UNIVERSITY OF MARYLAND - BALT PROF SCH	33	14	19
82 UNIVERSITY OF PENNSYLVANIA	32	26	6
83 UNIVERSITY OF MISSOURI - COLUMBIA	31	27	4
84 JOHNS HOPKINS UNIVERSITY	31	27	4
85 UNIV OF ILLINOIS MED CENTER - CHICAGO	31	14	17
86 UNIVERSITY OF DENVER	30	21	9
87 ARIZONA STATE UNIVERSITY	29	18	11
88 SYRACUSE UNIVERSITY	28	25	3
89 UNIVERSITY OF AKRON	28	13	15
90 WICHITA STATE UNIVERSITY	28	11	17
TOTAL, 1ST 90 INSTS.	7,301	4,341	2,960
91 MEHARRY MEDICAL COLLEGE	28	28	0
92 UNIVERSITY OF MISSISSIPPI	28	25	3
93 YALE UNIVERSITY	27	27	0
94 UNIVERSITY OF MISSOURI - KANSAS CITY	27	5	22
95 UNIVERSITY OF ARKANSAS	26	17	9
96 UNIVERSITY OF KANSAS	26	22	4
97 NORTHWESTERN UNIVERSITY	26	25	1
98 UNIVERSITY OF SOUTH FLORIDA	26	17	9
99 CUNY GRADUATE SCHOOL AND UNIV CENTER	25	21	4
100 FAIRLEIGH DICKINSON UNIVERSITY	25	2	23
TOTAL, 1ST 100 INSTS.	7,565	4,530	3,035
101 EAST CAROLINA UNIVERSITY	25	10	15
102 UNIVERSITY OF COLORADO	24	19	5
103 IOWA STATE UNIVERSITY OF SCI & TECH	24	24	0
104 TEXAS A & M UNIVERSITY	24	20	4
105 UNIVERSITY OF DETROIT	24	1	23
106 FLORIDA ATLANTIC UNIVERSITY	24	3	21
107 DUKE UNIVERSITY	23	21	2
108 WRIGHT STATE UNIVERSITY	23	16	7
109 UNIVERSITY OF NEBRASKA - OMAHA	23	7	16
110 SUNY - BINGHAMTON	22	9	13
TOTAL, 1ST 110 INSTS.	7,801	4,660	3,141
111 INDIANA UNIVERSITY, ALL CAMPUSES	21	17	4
112 UNIVERSITY OF IOWA	21	12	9
113 VIRGINIA POLYTECHNIC INST AND STATE UNIV	21	12	9
114 PORTLAND STATE UNIVERSITY	20	11	9
115 LOYOLA UNIVERSITY OF CHICAGO	18	9	9
116 TULANE UNIVERSITY OF LOUISIANA	18	13	5
117 NORTH TEXAS STATE UNIVERSITY	18	13	5
118 BOWLING GREEN STATE UNIVERSITY	18	16	2
119 NORTHERN ILLINOIS UNIVERSITY	18	11	7
120 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	18	4	14
TOTAL, 1ST 120 INSTS.	7,992	4,778	3,214

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
121 UNIVERSITY OF SOUTHWESTERN LOUISIANA	17	7	10
122 UNIV OF TEXAS AT DALLAS	17	13	4
123 SOUTHERN METHODIST UNIVERSITY	17	1	16
124 UNIVERSITY OF LOWELL	16	6	10
125 WASHINGTON STATE UNIVERSITY	16	12	4
126 ADELPHI UNIVERSITY	16	8	8
127 UNIVERSITY OF CALIF AT DAVIS	16	15	1
128 MIAMI UNIVERSITY	15	13	2
129 EAST TEXAS STATE UNIVERSITY	15	1	14
130 UNIVERSITY OF CONNECTICUT	15	10	5
TOTAL, 1ST 130 INSTS.	8,152	4,864	3,288
131 AUBURN UNIVERSITY	14	14	0
132 POLYTECHNIC INSTITUTE OF NEW YORK	14	3	11
133 KENT STATE UNIVERSITY	13	8	5
134 UNIVERSITY OF CALIF AT RIVERSIDE	13	12	1
135 VANDERBILT UNIVERSITY	13	13	0
136 UNIVERSITY OF TOLEDO	13	7	6
137 BOSTON COLLEGE	13	8	5
138 KANSAS STATE UNIV OF AGR & APPLIED SCI	13	10	3
139 SAN DIEGO STATE UNIVERSITY	13	6	7
140 UNIVERSITY OF CALIF AT IRVINE	13	13	0
TOTAL, 1ST 140 INSTS.	8,284	4,958	3,326
141 EAST TENNESSEE STATE UNIVERSITY	13	12	1
142 UNIVERSITY OF CALIF AT SAN DIEGO	12	12	0
143 UNIVERSITY OF NEBRASKA - LINCOLN	12	10	2
144 UNIVERSITY OF ROCHESTER	12	9	3
145 NORTHERN ARIZONA UNIVERSITY	12	3	9
146 INDIANA STATE UNIVERSITY	12	5	7
147 GEORGE MASON UNIVERSITY	11	2	9
148 UNIVERSITY OF HAWAII AT MANOA	11	10	1
149 UNIVERSITY OF CALIF AT SAN FRANCISCO	11	11	0
150 TEXAS TECH UNIVERSITY	11	9	2
TOTAL, 1ST 150 INSTS.	8,401	5,041	3,360
151 UNIVERSITY OF CALIF AT SANTA CRUZ	11	11	0
152 CENTRAL MICHIGAN UNIVERSITY	11	6	5
153 UNIVERSITY OF MISSOURI - ST LOUIS	11	2	9
154 SMITH COLLEGE	11	11	0
155 UNIVERSITY OF VIRGINIA	11	11	0
156 UNIVERSITY OF ARIZONA	11	9	2
157 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	11	4	7
158 CLEMSON UNIVERSITY	11	6	5
159 UNIVERSITY OF DAYTON	11	5	6
160 UNIVERSITY OF NEW MEXICO	10	5	5
TOTAL, 1ST 160 INSTS.	8,510	5,111	3,399
161 UNIVERSITY OF UTAH	10	9	1
162 UNIVERSITY OF CENTRAL FLORIDA	10	3	7
163 COLUMBIA UNIV MAIN DIVISION	10	5	5
164 MEDICAL COLLEGE OF GEORGIA	10	3	7
165 NEW YORK UNIVERSITY	9	4	5
166 ILLINOIS STATE UNIVERSITY	9	8	1
167 UNIVERSITY OF NOTRE DAME	9	6	3
168 UNIVERSITY OF CALIF AT SANTA BARBARA	8	8	0
169 BRANDEIS UNIVERSITY	8	8	0
170 FULLER THEOLOGICAL SEMINARY	8	8	0
TOTAL, 1ST 170 INSTS.	8,601	5,173	3,428
171 UNIV OF TEXAS AT EL PASO	8	2	6
172 BROWN UNIVERSITY	8	8	0
173 THE MEDICAL COLLEGE OF PENNSYLVANIA	8	7	1
174 TUFTS UNIVERSITY	7	4	3
175 UNIVERSITY OF MIAMI	7	5	2
176 COLORADO STATE UNIVERSITY	7	6	1
177 RICE UNIVERSITY	7	7	0
178 GEORGETOWN UNIVERSITY	7	7	0
179 CALIF SCH OF PROF PSYCH - SAN DIEGO	7	6	1
180 LEHIGH UNIVERSITY	7	3	4
TOTAL, 1ST 180 INSTS.	8,674	5,228	3,446

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
181 UNIVERSITY OF SOUTH ALABAMA	7	4	3
182 CALIF SCH OF PROF PSYCH - LOS ANGELES	7	7	0
183 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	6	3	3
184 NEW MEXICO STATE UNIVERSITY	6	3	3
185 OREGON STATE UNIVERSITY	6	6	0
186 RUSH UNIVERSITY	6	4	2
187 LOUISIANA TECH UNIVERSITY	5	3	2
188 HAHNEMANN UNIVERSITY	5	5	0
189 CALIF SCH OF PROF PSYCH - BERKELEY	5	5	0
190 UNIVERSITY OF MISSOURI - ROLLA	5	3	2
TOTAL, 1ST 190 INSTS.	8,732	5,271	3,461
191 COLLEGE OF WILLIAM AND MARY	5	4	1
192 SETON HALL UNIVERSITY	5	2	3
193 UNIVERSITY OF RHODE ISLAND	5	1	4
194 WAKE FOREST UNIVERSITY	5	2	3
195 UNIVERSITY OF OREGON	5	5	0
196 HOFSTRA UNIVERSITY	5	4	1
197 TEXAS A & I UNIVERSITY	5	5	0
198 SOUTH DAKOTA STATE UNIVERSITY	4	3	1
199 CLARK UNIVERSITY	4	4	0
200 DUQUESNE UNIVERSITY	4	1	3
TOTAL, 1ST 200 INSTS.	8,779	5,302	3,477
201 THOMAS JEFFERSON UNIVERSITY	3	3	0
202 UNIVERSITY OF NORTHERN IOWA	3	3	0
203 EASTERN VIRGINIA MEDICAL SCHOOL	3	3	0
204 OKLAHOMA STATE UNIVERSITY	3	3	0
205 SAM HOUSTON STATE UNIVERSITY	3	2	1
206 UNIVERSITY OF NEVADA AT RENO	3	2	1
207 OHIO UNIVERSITY	3	3	0
208 NORTH DAKOTA STATE UNIVERSITY	2	2	0
209 UNIVERSITY OF NEBRASKA MEDICAL CENTER	2	1	1
210 BRYN MAWR COLLEGE	2	0	2
TOTAL, 1ST 210 INSTS.	8,806	5,324	3,482
211 STEPHEN F. AUSTIN STATE UNIVERSITY	2	2	0
212 OAKLAND UNIVERSITY	2	2	0
213 TEXAS CHRISTIAN UNIVERSITY	2	2	0
214 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	2	1	1
215 MEDICAL UNIVERSITY OF SOUTH CAROLINA	2	2	0
216 UNIVERSITY OF WYOMING	2	2	0
217 WORCESTER POLYTECHNIC INSTITUTE	2	1	1
218 ORAL ROBERTS UNIVERSITY	2	0	2
219 NEW YORK MEDICAL COLLEGE	2	0	2
220 UNIVERSITY OF HEALTH SCIENCES	1	1	0
TOTAL, 1ST 220 INSTS.	8,825	5,337	3,488
221 UNIV OF TEXAS MED BRANCH AT GALVESTON	1	1	0
222 INSTITUTE OF PAPER CHEMISTRY	1	1	0
223 UNIVERSITY OF ALASKA AT FAIRBANKS	1	0	1
224 SUNY - COLL OF ENV SCIENCE AND FORESTRY	1	1	0
225 UTAH STATE UNIVERSITY	1	0	1
226 CREIGHTON UNIVERSITY	1	0	1
227 UNIVERSITY OF NORTH DAKOTA	1	1	0
228 PACE UNIVERSITY	1	1	0
229 DARTMOUTH COLLEGE	1	1	0
230 NEW MEXICO INSTITUTE OF MINING AND TECH	1	1	0
TOTAL, 1ST 230 INSTS.	8,835	5,344	3,491
231 WESLEYAN UNIVERSITY	1	1	0
232 COLORADO SCHOOL OF MINES	1	1	0
233 MARQUETTE UNIVERSITY	1	1	0
234 CLARKSON COLLEGE OF TECHNOLOGY	1	0	1
235 UNIVERSITY OF MONTANA	1	1	0
236 UNIV OF MED AND DENT OF NEW JERSEY	1	1	0
237 BRIGHAM YOUNG UNIVERSITY	1	1	0
238 YESHIVA UNIVERSITY	1	1	0
239 MARSHALL UNIVERSITY	0	0	0
240 NORTHEAST LOUISIANA UNIVERSITY	0	0	0
TOTAL, 1ST 240 INSTS.	8,843	5,351	3,492

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
241 ALBANY MEDICAL COLLEGE	0	0	0
242 UNIV OF TEXAS CANCER CENTER	0	0	0
243 MICHIGAN TECHNOLOGICAL UNIVERSITY	0	0	0
244 UNION COLLEGE(NY)	0	0	0
245 PROVIDENCE COLLEGE	0	0	0
246 NEW SCHOOL FOR SOCIAL RESEARCH	0	0	0
247 UNIVERSITY OF SOUTH DAKOTA	0	0	0
248 CATHOLIC UNIVERSITY OF AMERICA	0	0	0
249 NOVA UNIVERSITY	0	0	0
250 TENNESSEE TECHNOLOGICAL UNIVERSITY	0	0	0
TOTAL, 1ST 250 INSTS.	8,843	5,351	3,492
251 UNIVERSITY OF CHICAGO	0	0	0
252 SOUTH DAKOTA SCHOOL OF MINES AND TECH	0	0	0
253 IDAHO STATE UNIVERSITY	0	0	0
254 BALL STATE UNIVERSITY	0	0	0
255 WOODS HOLE OCEANOGRAPHIC INSTITUTION	0	0	0
256 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0
257 BAYLOR UNIVERSITY	0	0	0
258 CUNY MOUNT SINAI SCHOOL OF MEDICINE	0	0	0
259 SOUTHERN ILLINOIS UNIV AT CARBONDALE	0	0	0
260 MEDICAL COLLEGE OF OHIO AT TOLEDO	0	0	0
TOTAL, 1ST 260 INSTS.	8,843	5,351	3,492
261 MEDICAL COLLEGE OF WISCONSIN	0	0	0
262 ALFRED UNIVERSITY	0	0	0
263 COLUMBIA UNIV TEACHERS COLLEGE	0	0	0
264 ST BONAVENTURE UNIVERSITY	0	0	0
265 UNIVERSITY OF TULSA	0	0	0
266 STEVENS INSTITUTE OF TECHNOLOGY	0	0	0
267 UNIVERSITY OF NORTHERN COLORADO	0	0	0
268 OREGON HEALTH SCIENCES UNIVERSITY	0	0	0
269 UNIVERSITY OF THE PACIFIC	0	0	0
270 UNIVERSITY OF SANTA CLARA	0	0	0
TOTAL, 1ST 270 INSTS.	8,843	5,351	3,492
271 VILLANOVA UNIVERSITY	0	0	0
272 BAYLOR COLLEGE OF MEDICINE	0	0	0
273 PRINCETON UNIVERSITY	0	0	0
274 NEW JERSEY INSTITUTE OF TECHNOLOGY	0	0	0
275 PHILADELPHIA COLL OF PHARMACY AND SCI	0	0	0
276 UNIVERSITY OF IDAHO	0	0	0
277 UNIVERSITY OF NEW HAMPSHIRE	0	0	0
278 INSTITUTE OF TEXTILE TECHNOLOGY	0	0	0
279 ROCKEFELLER UNIVERSITY	0	0	0
280 US NAVAL POSTGRADUATE SCHOOL	0	0	0
TOTAL, 1ST 280 INSTS.	8,843	5,351	3,492
281 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	0	0	0
282 SUNY - DOWNSTATE MEDICAL CENTER	0	0	0
283 KANSAS CITY COLL OF OSTEOPATHIC MEDICINE	0	0	0
284 UNIVERSITY OF MAINE AT ORONO	0	0	0
285 GOLDEN GATE UNIVERSITY	0	0	0
286 LAMAR UNIVERSITY	0	0	0
287 AIR FORCE INSTITUTE OF TECHNOLOGY	0	0	0
288 SUNY - UPSTATE MEDICAL CENTER	0	0	0
289 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	0	0	0
290 SUNY - ALBANY	0	0	0
TOTAL, 1ST 290 INSTS.	8,843	5,351	3,492
291 CALIFORNIA INSTITUTE OF TECHNOLOGY	0	0	0
292 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	0	0	0
293 THE WRIGHT INSTITUTE	0	0	0
294 OREGON GRADUATE CENTER	0	0	0
295 BIOLA COLLEGE	0	0	0
296 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	0	0	0
297 BAYLOR COLLEGE OF DENTISTRY	0	0	0
298 MONTANA STATE UNIVERSITY	0	0	0
299 MASSACHUSETTS COLLEGE OF PHARMACY	0	0	0
300 DREXEL UNIVERSITY	0	0	0
TOTAL, 1ST 300 INSTS.	8,843	5,351	3,492

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
301 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	0	0	0
302 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	0	0	0
303 COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0	0
304 UNIVERSITY OF DELAWARE	0	0	0
305 SUNY STATE COLLEGE OF OPTOMETRY	0	0	0
306 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	0	0	0
307 CATHOLIC UNIVERSITY OF PUERTO RICO	0	0	0
308 RAND GRADUATE INSTITUTE POLICY STUDIES	0	0	0
309 UNION OF EXPERIMENTNG COLLEGES & UNIVS	0	0	0
310 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	0	0	0
TOTAL, 1ST 310 INSTS.	8,843	5,351	3,492
311 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0
312 OKLAHOMA COLL OF OSTEO MED & SURGERY	0	0	0
313 NORTHEASTERN UNIVERSITY	0	0	0
314 CALIF SCH OF PROF PSYCH - FRESNO	0	0	0
315 CALIFORNIA INSTITUTE OF ASIAN STUDIES	0	0	0
316 HEED UNIVERSITY	0	0	0
317 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0
318 UNIVERSITY OF PUERTO RICO	0	0	0
319 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	0	0	0
320 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	0	0	0
TOTAL, 1ST 320 INSTS.	8,843	5,351	3,492
321 NE OHIO UNIV COL OF MEDICINE	0	0	0
322 CARIBBEAN CTR FOR ADV STD	0	0	0
323 THE FIELDING INSTITUTE	0	0	0
324 CHICAGO COLL OF OSTEO MEDICINE	0	0	0
TOTAL, 1ST 324 INSTS.	8,843	5,351	3,492

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

	INSTITUTIONAL RANKING	FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
	TOTAL, ALL INSTITUTIONS	52,659	7,298
1	UNIVERSITY OF CALIF AT BERKELEY	1,484	128
2	OHIO STATE UNIVERSITY	1,126	105
3	UNIVERSITY OF MICHIGAN	1,060	85
4	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	1,055	143
5	UNIVERSITY OF WISCONSIN - MADISON	1,049	145
6	STANFORD UNIVERSITY	993	147
7	UNIVERSITY OF SOUTHERN CALIFORNIA	906	139
8	UNIVERSITY OF MINNESOTA	903	143
9	UNIV OF TEXAS AT AUSTIN	895	79
10	UNIVERSITY OF CALIF AT LOS ANGELES	880	167
	TOTAL, 1ST 10 INSTS.	10,351	1,281
11	UNIVERSITY OF ILLINOIS - URBANA	874	135
12	CORNELL UNIVERSITY	837	151
13	UNIVERSITY OF PITTSBURGH	821	48
14	PURDUE UNIVERSITY	747	114
15	PENNSYLVANIA STATE UNIVERSITY	731	44
16	MICHIGAN STATE UNIVERSITY	727	65
17	IOWA STATE UNIVERSITY OF SCI & TECH	671	30
18	UNIVERSITY OF CALIF AT DAVIS	661	68
19	UNIVERSITY OF FLORIDA	617	65
20	COLUMBIA UNIV MAIN DIVISION	607	80
	TOTAL, 1ST 20 INSTS.	17,644	2,081
21	TEXAS A & M UNIVERSITY	601	45
22	UNIVERSITY OF PENNSYLVANIA	552	135
23	SUNY - STONY BROOK	524	71
24	HARVARD UNIVERSITY	515	365
25	UNIVERSITY OF ARIZONA	512	52
26	SUNY - BUFFALO	505	68
27	NORTH CAROLINA STATE UNIV AT RALEIGH	504	27
28	OREGON STATE UNIVERSITY	500	17
29	RENSSELAER POLYTECHNIC INSTITUTE	481	39
30	UNIVERSITY OF KANSAS	475	44
	TOTAL, 1ST 30 INSTS.	22,813	2,944
31	UNIVERSITY OF CINCINNATI	458	13
32	OKLAHOMA STATE UNIVERSITY	457	11
33	HOWARD UNIVERSITY	442	8
34	STEVENS INSTITUTE OF TECHNOLOGY	424	0
35	VIRGINIA POLYTECHNIC INST AND STATE UNIV	420	24
36	GEORGIA INSTITUTE OF TECHNOLOGY	419	23
37	UNIVERSITY OF MISSOURI - COLUMBIA	416	26
38	UNIVERSITY OF HAWAII AT MANOA	412	7
39	UNIVERSITY OF IOWA	409	39
40	BOSTON UNIVERSITY	406	13
	TOTAL, 1ST 40 INSTS.	27,076	3,108
41	UNIVERSITY OF WASHINGTON	400	95
42	RUTGERS THE STATE UNIVERSITY	395	56
43	NORTHEASTERN UNIVERSITY	387	15
44	INDIANA UNIVERSITY, ALL CAMPUSES	381	52
45	NORTHWESTERN UNIVERSITY	369	97
46	LOUISIANA STATE UNIVERSITY SYSTEM	367	28
47	UNIVERSITY OF COLORADO	367	71
48	UNIVERSITY OF MARYLAND - COLLEGE PARK	365	69
49	UNIVERSITY OF CALIF AT SANTA BARBARA	363	43
50	WASHINGTON STATE UNIVERSITY	351	17
	TOTAL, 1ST 50 INSTS.	30,821	3,651
51	KANSAS STATE UNIV OF AGR & APPLIED SCI	346	23
52	UNIVERSITY OF CHICAGO	336	99
53	UNIVERSITY OF GEORGIA	330	47
54	CASE WESTERN RESERVE UNIVERSITY	323	68
55	COLORADO STATE UNIVERSITY	319	36
56	UNIV OF TEXAS AT ARLINGTON	310	10
57	UNIVERSITY OF HOUSTON	309	31
58	SYRACUSE UNIVERSITY	304	18
59	UNIVERSITY OF CONNECTICUT	300	41
60	UNIVERSITY OF NEBRASKA - LINCOLN	298	26
	TOTAL, 1ST 60 INSTS.	33,996	4,050

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
61 GEORGE WASHINGTON UNIVERSITY	294	7
62 UNIVERSITY OF MASSACHUSETTS AT AMHERST	292	53
63 YALE UNIVERSITY	289	199
64 CUNY GRADUATE SCHOOL AND UNIV CENTER	285	25
65 PRINCETON UNIVERSITY	281	77
66 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	279	18
67 CALIFORNIA INSTITUTE OF TECHNOLOGY	275	79
68 WEST VIRGINIA UNIVERSITY	271	18
69 TEXAS TECH UNIVERSITY	270	19
70 OHIO UNIVERSITY	266	2
TOTAL, 1ST 70 INSTS.	36,798	4,547
71 UTAH STATE UNIVERSITY	264	11
72 UNIVERSITY OF TENNESSEE AT KNOXVILLE	260	28
73 CARNEGIE-MELLON UNIVERSITY	258	68
74 UNIVERSITY OF KENTUCKY	256	29
75 WASHINGTON UNIVERSITY	251	85
76 UNIVERSITY OF OKLAHOMA - NORMAN	250	20
77 ILLINOIS INSTITUTE OF TECHNOLOGY	245	6
78 WAYNE STATE UNIVERSITY	243	35
79 UNIVERSITY OF UTAH	239	58
80 NEW YORK UNIVERSITY	234	70
TOTAL, 1ST 80 INSTS	39,298	4,957
81 UNIVERSITY OF CALIF AT SAN DIEGO	232	136
82 JOHNS HOPKINS UNIVERSITY	229	147
83 MISSISSIPPI STATE UNIVERSITY	225	3
84 UNIVERSITY OF CALIF AT RIVERSIDE	223	36
85 GEORGETOWN UNIVERSITY	222	33
86 UNIVERSITY OF MISSOURI - ROLLA	215	4
87 FLORIDA INSTITUTE OF TECHNOLOGY	204	0
88 ARIZONA STATE UNIVERSITY	200	43
89 UNIVERSITY OF ROCHESTER	198	74
90 AUBURN UNIVERSITY	198	3
TOTAL, 1ST 90 INSTS.	41,444	5,436
91 TULANE UNIVERSITY OF LOUISIANA	196	11
92 UNIVERSITY OF MIAMI	193	23
93 VANDERBILT UNIVERSITY	192	75
94 BROWN UNIVERSITY	179	34
95 UNIVERSITY OF SOUTH CAROLINA	178	20
96 LEHIGH UNIVERSITY	176	8
97 NEW MEXICO STATE UNIVERSITY	170	2
98 UNIVERSITY OF NEW MEXICO	166	13
99 UNIVERSITY OF ARKANSAS	166	6
100 POLYTECHNIC INSTITUTE OF NEW YORK	164	8
TOTAL, 1ST 100 INSTS.	43,224	5,636
101 UNIV OF TEXAS AT DALLAS	163	7
102 AMERICAN UNIVERSITY	159	5
103 UNIVERSITY OF NOTRE DAME	155	13
104 US NAVAL POSTGRADUATE SCHOOL	148	0
105 UNIVERSITY OF CALIF AT IRVINE	148	35
106 UNIV OF NORTH CAROLINA AT CHAPEL HILL	146	43
107 UNIVERSITY OF AKRON	145	12
108 RICE UNIVERSITY	144	38
109 FLORIDA STATE UNIVERSITY	144	32
110 UNIVERSITY OF OREGON	139	17
TOTAL, 1ST 110 INSTS.	44,715	5,838
111 COLORADO SCHOOL OF MINES	138	0
112 UNIVERSITY OF DELAWARE	134	0
113 NEW SCHOOL FOR SOCIAL RESEARCH	133	0
114 NORTH DAKOTA STATE UNIVERSITY	133	7
115 NORTH TEXAS STATE UNIVERSITY	126	5
116 UNIVERSITY OF TOLEDO	124	1
117 DREXEL UNIVERSITY	123	15
118 UNIVERSITY OF VIRGINIA	123	55
119 ATLANTA UNIVERSITY	118	0
120 THE UNIVERSITY OF ALABAMA	116	8
TOTAL, 1ST 120 INSTS.	45,983	5,929

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
121 WESTERN MICHIGAN UNIVERSITY	115	1
122 SAN DIEGO STATE UNIVERSITY	113	4
123 CLARKSON COLLEGE OF TECHNOLOGY	113	13
124 UNIVERSITY OF SOUTHWESTERN LOUISIANA	108	0
125 UNIVERSITY OF LOWELL	108	0
126 UNIVERSITY OF RHODE ISLAND	107	14
127 OLD DOMINION UNIVERSITY	107	2
128 CLEMSON UNIVERSITY	106	2
129 TEMPLE UNIVERSITY	106	44
130 SUNY - ALBANY	106	0
TOTAL, 1ST 130 INSTS.	47,072	6,009
131 BRIGHAM YOUNG UNIVERSITY	103	6
132 LOMA LINDA UNIVERSITY	102	20
133 SUNY - BINGHAMTON	101	5
134 CATHOLIC UNIVERSITY OF AMERICA	101	12
135 UNIVERSITY OF DENVER	99	1
136 MARQUETTE UNIVERSITY	93	9
137 NORTHERN ILLINOIS UNIVERSITY	92	2
138 KENT STATE UNIVERSITY	92	0
139 UNIVERSITY OF MISSISSIPPI	91	15
140 UNIVERSITY OF WYOMING	85	6
TOTAL, 1ST 140 INSTS.	48,031	6,085
141 SOUTH DAKOTA SCHOOL OF MINES AND TECH	85	0
142 VILLANOVA UNIVERSITY	84	0
143 COLUMBIA UNIV TEACHERS COLLEGE	84	0
144 DUKE UNIVERSITY	82	55
145 UNIVERSITY OF IDAHO	81	8
146 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	80	38
147 UNIVERSITY OF WISCONSIN - MILWAUKEE	78	14
148 UNIVERSITY OF CALIF AT SAN FRANCISCO	78	168
149 NEW JERSEY INSTITUTE OF TECHNOLOGY	76	0
150 CUNY CITY COLLEGE	75	28
TOTAL, 1ST 150 INSTS.	48,834	6,396
151 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	74	0
152 BRANDEIS UNIVERSITY	74	26
153 UNIVERSITY OF LOUISVILLE	74	10
154 SOUTHERN METHODIST UNIVERSITY	72	7
155 WORCESTER POLYTECHNIC INSTITUTE	72	4
156 MICHIGAN TECHNOLOGICAL UNIVERSITY	72	0
157 TEXAS A & I UNIVERSITY	69	0
158 UNIV OF TEXAS AT EL PASO	69	3
159 NEW YORK INSTITUTE OF TECHNOLOGY	68	0
160 UNIVERSITY OF TULSA	68	0
TOTAL, 1ST 160 INSTS.	49,546	6,446
161 WICHITA STATE UNIVERSITY	68	0
162 CLARK UNIVERSITY	64	0
163 TUFTS UNIVERSITY	62	19
164 UNIV OF ILLINOIS MED CENTER - CHICAGO	61	39
165 BOWLING GREEN STATE UNIVERSITY	60	1
166 TEXAS WOMAN'S UNIVERSITY	58	1
167 SUNY - COLL OF ENV SCIENCE AND FORESTRY	58	10
168 INDIANA STATE UNIVERSITY	57	1
169 SOUTH DAKOTA STATE UNIVERSITY	57	1
170 PORTLAND STATE UNIVERSITY	56	0
TOTAL, 1ST 170 INSTS.	50,147	6,518
171 UNIVERSITY OF NEVADA AT RENO	55	7
172 MEMPHIS STATE UNIVERSITY	54	1
173 ST LOUIS UNIVERSITY	52	16
174 MONTANA STATE UNIVERSITY	50	8
175 MIAMI UNIVERSITY	48	2
176 BOSTON COLLEGE	48	9
177 LONG ISLAND UNIVERSITY	47	1
178 TENNESSEE TECHNOLOGICAL UNIVERSITY	47	0
179 FAIRLEIGH DICKINSON UNIVERSITY	46	0
180 UNIVERSITY OF DETROIT	46	0
TOTAL, 1ST 180 INSTS.	50,640	6,562

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

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INSTITUTIONAL RANKING		FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
181	CLEVELAND STATE UNIVERSITY	46	1
182	UNIVERSITY OF NEW HAMPSHIRE	45	1
183	UNIVERSITY OF CALIF AT SANTA CRUZ	42	10
184	LAMAR UNIVERSITY	42	9
185	SAM HOUSTON STATE UNIVERSITY	42	0
186	COLLEGE OF WILLIAM AND MARY	42	0
187	CENTRAL MICHIGAN UNIVERSITY	41	0
188	CUNY HUNTER COLLEGE	41	1
189	UNIVERSITY OF OKLAHOMA HEALTH SCI CENTER	40	4
190	ILLINOIS STATE UNIVERSITY	40	6
	TOTAL, 1ST 190 INSTS.	51,061	6,594
191	CLAREMONT UNIV CENTER & GRADUATE SCHOOL	39	0
192	EMORY UNIVERSITY	38	16
193	NEW MEXICO INSTITUTE OF MINING AND TECH	37	4
194	LOYOLA UNIVERSITY OF CHICAGO	37	10
195	UNIVERSITY OF NEW ORLEANS	36	3
196	UNIVERSITY OF MISSOURI - KANSAS CITY	35	1
197	UNIVERSITY OF CENTRAL FLORIDA	34	0
198	UNIVERSITY OF DAYTON	34	0
199	ST JOHN'S UNIVERSITY	33	0
200	DE PAUL UNIVERSITY	31	0
	TOTAL, 1ST 200 INSTS.	51,415	6,628
201	UNION OF EXPERIMENTNG COLLEGES & UNIVS	31	0
202	UNIVERSITY OF MARYLAND - BALT PROF SCH	29	9
203	UNIVERSITY OF MONTANA	28	0
204	LOUISIANA TECH UNIVERSITY	27	0
205	VIRGINIA COMMONWEALTH UNIVERSITY	27	20
206	UNIVERSITY OF NORTH DAKOTA	27	6
207	UNIVERSITY OF MARYLAND - BALTIMORE CNTY	27	3
208	YESHIVA UNIVERSITY	26	72
209	DUQUESNE UNIVERSITY	25	0
210	WRIGHT STATE UNIVERSITY	25	1
	TOTAL, 1ST 210 INSTS.	51,687	6,739
211	UNIVERSITY OF ALASKA AT FAIRBANKS	24	1
212	GEORGIA STATE UNIVERSITY	24	5
213	UNIVERSITY OF SOUTHERN MISSISSIPPI	24	1
214	UNIV OF TEXAS HLTH SCI CTR AT DALLAS	23	44
215	UNIVERSITY OF SOUTH FLORIDA	23	4
216	UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	23	3
217	OAKLAND UNIVERSITY	23	0
218	CARIBBEAN CTR FOR ADV STD	22	0
219	UNIVERSITY OF NEBRASKA MEDICAL CENTER	22	6
220	FORDHAM UNIVERSITY	21	3
	TOTAL, 1ST 220 INSTS.	51,916	6,806
221	FLORIDA ATLANTIC UNIVERSITY	21	2
222	ROCKEFELLER UNIVERSITY	20	69
223	ADELPHI UNIVERSITY	19	11
224	WOODS HOLE OCEANOGRAPHIC INSTITUTION	19	0
225	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	19	4
226	UNIV OF NORTH CAROLINA AT GREENSBORO	19	0
227	UNIVERSITY OF MAINE AT ORONO	19	0
228	BAYLOR COLLEGE OF MEDICINE	19	101
229	UNIV OF MED AND DENT OF NEW JERSEY	18	8
230	DARTMOUTH COLLEGE	18	5
	TOTAL, 1ST 230 INSTS.	52,107	7,006
231	MASSACHUSETTS COLLEGE OF PHARMACY	17	1
232	EAST TEXAS STATE UNIVERSITY	17	0
233	AIR FORCE INSTITUTE OF TECHNOLOGY	17	0
234	UNIVERSITY OF NORTHERN COLORADO	17	0
235	BALL STATE UNIVERSITY	16	0
236	STEPHEN F. AUSTIN STATE UNIVERSITY	16	0
237	UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	16	23
238	SUNY - DOWNSTATE MEDICAL CENTER	15	4
239	US INTERNATIONAL UNIVERSITY	15	0
240	OREGON GRADUATE CENTER	15	4
	TOTAL, 1ST 240 INSTS.	52,268	7,038

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING		FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
241	NORTHERN ARIZONA UNIVERSITY	15	1
242	BAYLOR UNIVERSITY	15	2
243	UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	15	11
244	UNIVERSITY OF MISSOURI - ST LOUIS	13	1
245	UNIVERSITY OF PUERTO RICO	12	0
246	UNIVERSITY OF SANTA CLARA	12	0
247	RAND GRADUATE INSTITUTE POLICY STUDIES	12	0
248	NORTHEAST LOUISIANA UNIVERSITY	12	0
249	TEXAS CHRISTIAN UNIVERSITY	12	0
250	UNIVERSITY OF THE PACIFIC	12	0
	TOTAL, 1ST 250 INSTS.	52,398	7,053
251	BRYN MAWR COLLEGE	11	0
252	EAST TENNESSEE STATE UNIVERSITY	11	1
253	MEDICAL UNIVERSITY OF SOUTH CAROLINA	11	12
254	UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	10	3
255	ALFRED UNIVERSITY	9	0
256	SETON HALL UNIVERSITY	9	1
257	HAHNEMANN UNIVERSITY	9	2
258	CALIF SCH OF PROF PSYCH - SAN DIEGO	8	0
259	UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	8	0
260	UNIVERSITY OF SOUTH ALABAMA	8	6
	TOTAL, 1ST 260 INSTS.	52,492	7,078
261	CALIF SCH OF PROF PSYCH - BERKELEY	8	0
262	PHILADELPHIA COLL OF PHARMACY AND SCI	7	0
263	OREGON HEALTH SCIENCES UNIVERSITY	7	4
264	UNIVERSITY OF SOUTH DAKOTA	7	0
265	WAKE FOREST UNIVERSITY	7	0
266	UNIVERSITY OF NEBRASKA - OMAHA	7	0
267	MARSHALL UNIVERSITY	7	0
268	IDAHO STATE UNIVERSITY	7	0
269	GEORGE MASON UNIVERSITY	6	0
270	UNIVERSITY OF HEALTH SCIENCES	6	3
	TOTAL, 1ST 270 INSTS.	52,561	7,085
271	WESLEYAN UNIVERSITY	6	2
272	MEHARRY MEDICAL COLLEGE	6	2
273	HEED UNIVERSITY	5	0
274	UNION COLLEGE(NY)	5	0
275	THE FIELDING INSTITUTE	5	0
276	MEDICAL COLLEGE OF WISCONSIN	5	8
277	UNIV OF TEXAS MED BRANCH AT GALVESTON	5	12
278	INSTITUTE OF PAPER CHEMISTRY	5	2
279	UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	4	47
280	HOFSTRA UNIVERSITY	4	0
	TOTAL, 1ST 280 INSTS.	52,611	7,158
281	MEDICAL COLLEGE OF GEORGIA	4	18
282	EAST CAROLINA UNIVERSITY	4	10
283	NOVA UNIVERSITY	3	0
284	BIOLA COLLEGE	3	0
285	SUNY - UPSTATE MEDICAL CENTER	3	7
286	FULLER THEOLOGICAL SEMINARY	3	0
287	MEDICAL COLLEGE OF OHIO AT TOLEDO	3	0
288	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	3	2
289	ALBANY MEDICAL COLLEGE	2	9
290	CREIGHTON UNIVERSITY	2	0
	TOTAL, 1ST 290 INSTS.	52,641	7,204
291	THE MEDICAL COLLEGE OF PENNSYLVANIA	2	1
292	PACE UNIVERSITY	2	0
293	THE WRIGHT INSTITUTE	2	0
294	NE OHIO UNIV COL OF MEDICINE	2	0
295	UNIVERSITY OF MASSACHUSETTS AT WORCESTER	2	18
296	RUSH UNIVERSITY	2	3
297	NEW YORK MEDICAL COLLEGE	2	9
298	THOMAS JEFFERSON UNIVERSITY	1	3
299	UNIVERSITY OF NORTHERN IOWA	1	0
300	EASTERN VIRGINIA MEDICAL SCHOOL	1	0
	TOTAL, 1ST 300 INSTS.	52,658	7,238

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
301 SUNY STATE COLLEGE OF OPTOMETRY	1	0
302 KANSAS CITY COLL OF OSTEOPATHIC MEDICINE	0	0
303 CHICAGO COLL OF OSTEO MEDICINE	0	0
304 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	2
305 UNIV OF TEXAS CANCER CENTER	0	28
306 CALIF SCH OF PROF PSYCH - LOS ANGELES	0	0
307 SOUTHERN ILLINOIS UNIV AT CARBONDALE	0	0
308 PROVIDENCE COLLEGE	0	0
309 DREW POST-GRADUATE MEDICAL SCHOOL	0	0
310 GOLDEN GATE UNIVERSITY	0	0
TOTAL, 1ST 310 INSTS.	52,659	7,268
311 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0
312 OKLAHOMA COLL OF OSTEO MED & SURGERY	0	0
313 ORAL ROBERTS UNIVERSITY	0	1
314 CALIF SCH OF PROF PSYCH - FRESNO	0	0
315 CALIFORNIA INSTITUTE OF ASIAN STUDIES	0	0
316 CATHOLIC UNIVERSITY OF PUERTO RICO	0	0
317 COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0
318 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	0	0
319 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	0	16
320 SMITH COLLEGE	0	0
TOTAL, 1ST 320 INSTS.	52,659	7,285
321 ST BONAVENTURE UNIVERSITY	0	0
322 BAYLOR COLLEGE OF DENTISTRY	0	0
323 INSTITUTE OF TEXTILE TECHNOLOGY	0	0
324 CUNY MOUNT SINAI SCHOOL OF MEDICINE	0	13
TOTAL, 1ST 324 INSTS.	52,659	7,298

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	51,831	18,899	32,932	35
1 SAN JOSE STATE UNIVERSITY	2,048	783	1,265	4
2 CALIF STATE UNIV AT LONG BEACH	1,771	337	1,434	1
3 CALIF STATE UNIV AT LOS ANGELES	1,544	757	787	0
4 CALIF STATE UNIVERSITY AT SACRAMENTO	1,279	468	811	0
5 SAN FRANCISCO STATE UNIVERSITY	1,258	544	714	1
6 CALIF STATE UNIVERSITY AT NORTHRIDGE	1,171	368	803	0
7 CALIF STATE UNIV AT FULLERTON	1,161	174	987	0
8 ANTIOCH UNIVERSITY	810	799	11	0
9 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	752	129	623	0
10 SANGAMON STATE UNIVERSITY	751	141	610	0
TOTAL, 1ST 10 INSTS.	12,545	4,500	8,045	6
11 THE HARTFORD GRADUATE CENTER	723	35	688	0
12 MARYWOOD COLLEGE	706	121	585	0
13 CALIF STATE UNIV AT DOMINGUEZ HILLS	679	614	65	0
14 ROCHESTER INSTITUTE OF TECHNOLOGY	645	51	594	0
15 CALIF STATE UNIVERSITY AT FRESNO	634	221	413	0
16 CUNY BERNARD BARUCH COLLEGE	596	104	492	0
17 ROOSEVELT UNIVERSITY	592	129	463	0
18 LOYOLA COLLEGE	565	98	467	0
19 WEST VIRGINIA COLLEGE OF GRAD STUDIES	544	37	507	0
20 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	509	76	433	0
TOTAL, 1ST 20 INSTS.	18,738	5,986	12,752	6
21 CALIF STATE UNIV AT HAYWARD	503	129	374	0
22 JOHN F KENNEDY UNIVERSITY	498	195	303	0
23 EASTERN MICHIGAN UNIVERSITY	492	202	290	0
24 UNIVERSITY OF NEW HAVEN	492	56	436	0
25 GEORGE WILLIAMS COLLEGE	477	217	260	0
26 UNIVERSITY OF SAN FRANCISCO	473	432	41	0
27 CALIF STATE POLYTECHNIC UNIV AT POMONA	461	145	316	0
28 RUSSELL SAGE COLLEGE	450	41	409	0
29 PITTSBURG STATE UNIVERSITY	440	165	275	0
30 TOWSON STATE UNIVERSITY	438	80	358	0
TOTAL, 1ST 30 INSTS.	23,462	7,648	15,814	6
31 LOYOLA MARYMOUNT UNIVERSITY	421	276	145	0
32 HOOD COLLEGE	417	31	386	0
33 UNIVERSITY OF BRIDGEPORT	406	90	316	0
34 PEPPERDINE UNIVERSITY	396	76	320	0
35 GOVERNORS STATE UNIVERSITY	383	48	335	0
36 WEST CHESTER STATE COLLEGE	380	61	319	0
37 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	379	256	123	0
38 MANHATTAN COLLEGE	361	136	225	0
39 SOUTHWEST TEXAS STATE UNIVERSITY	361	239	122	1
40 TRINITY UNIVERSITY	351	171	180	2
TOTAL, 1ST 40 INSTS.	27,317	9,032	18,285	9
41 MONTCLAIR STATE COLLEGE	349	48	301	0
42 UNIVERSITY OF BALTIMORE	318	55	263	0
43 MANKATO STATE UNIVERSITY	317	178	139	0
44 CUNY QUEENS COLLEGE	313	126	187	10
45 NATIONAL UNIVERSITY	310	218	92	0
46 UNIVERSITY OF WEST FLORIDA	301	98	203	0
47 MIDDLE TENNESSEE STATE UNIVERSITY	292	107	185	0
48 SOUTHERN CONNECTICUT STATE COLLEGE	289	108	181	0
49 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	285	122	163	0
50 UNIVERSITY OF TEXAS AT SAN ANTONIO	271	51	220	3
TOTAL, 1ST 50 INSTS.	30,362	10,143	20,219	22
51 BARRY COLLEGE	268	133	135	0
52 UNIVERSITY OF WISCONSIN - OSHKOSH	261	68	193	0
53 EMPORIA STATE UNIVERSITY - KANSAS	260	119	141	0
54 EASTERN WASHINGTON UNIVERSITY	260	182	78	0
55 WESTERN ILLINOIS UNIVERSITY	258	202	56	1
56 CALIF STATE UNIVERSITY AT CHICO	253	253	0	0
57 SEATTLE UNIVERSITY	252	23	229	0
58 WEST TEXAS STATE UNIVERSITY	249	50	199	0
59 AZUSA PACIFIC COLLEGE	242	220	22	0
60 BISCAYNE COLLEGE	242	105	137	0
TOTAL, 1ST 60 INSTS.	32,907	11,498	21,409	23

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TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
61 UNIVERSITY OF HARTFORD	241	92	149	0
62 ST MARY'S UNIVERSITY OF SAN ANTONIO	241	82	159	0
63 WEST COAST UNIVERSITY	240	232	8	0
64 CUNY BROOKLYN COLLEGE	236	18	218	0
65 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	236	176	60	0
66 EASTERN NEW MEXICO UNIVERSITY	235	97	138	1
67 ANNA MARIA COLLEGE	230	8	222	0
68 RIDER COLLEGE	227	2	225	0
69 WILLIAM PATTERSON COLLEGE	222	83	139	1
70 WESTERN WASHINGTON UNIVERSITY	220	107	113	0
TOTAL, 1ST 70 INSTS.	35,235	12,395	22,840	25
71 UNIVERSITY OF NEVADA AT LAS VEGAS	214	92	122	0
72 NORTHWESTERN STATE UNIV OF LOUISIANA	209	83	126	0
73 NORTHEASTERN ILLINOIS UNIVERSITY	204	12	192	0
74 SUFFOLK UNIVERSITY	203	25	178	0
75 TENNESSEE STATE UNIVERSITY	198	55	143	0
76 FRAMINGHAM STATE COLLEGE	192	20	172	0
77 WESTERN KENTUCKY UNIVERSITY	192	105	87	0
78 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	192	72	120	0
79 ALABAMA A & M UNIVERSITY	189	141	48	2
80 JACKSON STATE UNIVERSITY	189	90	99	0
TOTAL, 1ST 80 INSTS.	37,217	13,09[illegible]	24,127	27
81 ASSUMPTION COLLEGE	188	49	139	0
82 COLLEGE OF ST ROSE	183	1	182	0
83 CALIF STATE COLLEGE OF STANISLAUS	177	75	102	0
84 EASTERN ILLINOIS UNIVERSITY	176	124	52	0
85 UNIVERSITY OF LA VERNE	175	47	128	0
86 TEXAS SOUTHERN UNIVERSITY	172	117	55	0
87 IONA COLLEGE	171	1	170	0
88 UNIVERSITY OF SCRANTON	167	69	98	0
89 XAVIER UNIVERSITY	165	120	45	0
90 UNIV OF ALASKA AT ANCHORAGE	164	42	122	0
TOTAL, 1ST 90 INSTS.	38,955	13,735	25,220	27
9[illegible] COLLEGE OF NEW ROCHELLE	164	17	147	0
92 CHAPMAN COLLEGE	161	12	149	0
93 WAGNER COLLEGE	158	11	147	0
94 SHIPPENSBURG STATE COLLEGE	158	28	130	0
95 APPALACHIAN STATE UNIVERSITY	157	85	72	0
96 AMERICAN INTERNATIONAL COLLEGE	157	27	130	0
97 CORPUS CHRISTI STATE UNIVERSITY	157	42	115	0
98 CENTRAL CONNECTICUT STATE COLLEGE	157	27	130	0
99 FORT HAYS STATE UNIVERSITY	156	65	91	0
100 EASTERN KENTUCKY UNIVERSITY	156	83	73	0
TOTAL, 1ST 100 INSTS.	40,536	14,132	26,404	27
101 QUINNIPIAC COLLEGE	155	9	146	0
102 JAMES MADISON UNIVERSITY	154	81	73	0
103 GEORGIA COLLEGE	152	7	145	0
104 EDINBORO STATE COLLEGE	149	59	90	0
105 WORCESTER STATE COLLEGE	147	0	147	0
106 UNIV OF NORTH CAROLINA AT CHARLOTTE	143	49	94	0
107 NORTHERN MICHIGAN UNIVERSITY	142	43	99	0
108 INDIANA UNIVERSITY OF PENNSYLVANIA	142	78	64	0
109 SUNY COLLEGE AT BROCKPORT	141	38	103	0
110 UNIVERSITY OF TEXAS AT TYLER	139	38	101	0
TOTAL, 1ST 110 INSTS.	42,000	14,534	27,466	27
111 YOUNGSTOWN STATE UNIVERSITY	137	29	108	0
112 CENTRAL MISSOURI STATE UNIVERSITY	136	81	55	0
113 SPALDING COLLEGE	135	12	123	0
114 WESTERN NEW ENGLAND COL	132	0	132	0
115 DRAKE UNIVERSITY	130	39	91	0
116 RHODE ISLAND COLLEGE	129	24	105	0
117 UNIVERSITY OF WISCONSIN - STEVENS POINT	128	92	36	0
118 HUMBOLDT STATE UNIVERSITY	128	78	50	0
119 MILLERSVILLE STATE COLLEGE	127	27	100	0
120 WESTERN CAROLINA UNIVERSITY	125	75	50	1
TOTAL, 1ST 120 INSTS.	43,307	14,991	28,316	28

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TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING		TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
121	NORTH CAROLINA A & T STATE UNIVERSITY	123	97	26	0
122	UNIVERSITY OF PORTLAND	123	98	25	0
123	SOUTHEASTERN MASSACHUSETTS UNIVERSITY	121	47	74	0
124	VALPARAISO UNIVERSITY	120	4	116	0
125	WESTERN OREGON STATE COLLEGE	117	27	90	0
126	RADFORD UNIVERSITY	116	65	51	0
127	MONMOUTH COLLEGE(NJ)	114	13	101	0
128	SUNY COLLEGE AT NEW PALTZ	114	49	65	0
129	KEAN COLLEGE OF NEW JERSEY	112	10	102	0
130	PACIFIC LUTHERAN UNIVERSITY	111	47	64	0
	TOTAL, 1ST 130 INSTS.	44,478	15,448	29,030	28
131	AMERICAN TECHNOLOGICAL UNIVERSITY	108	39	69	0
132	MURRAY STATE UNIVERSITY	108	65	43	0
133	TRENTON STATE COLLEGE	107	7	100	0
134	ANDREWS UNIVERSITY	102	34	68	0
135	MCNEESE STATE UNIVERSITY	101	39	62	0
136	UNIVERSITY OF SAN DIEGO	99	40	59	0
137	TROY STATE UNIVERSITY AT MONTGOMERY	98	0	98	0
138	UNIVERSITY OF EVANSVILLE	98	6	92	0
139	ARKANSAS STATE UNIVERSITY	98	55	43	0
140	CALIFORNIA STATE COLLEGE	96	33	63	0
	TOTAL, 1ST 140 INSTS.	45,493	15,766	29,727	28
141	CALIF STATE COLLEGE AT SAN BERNARDINO	95	41	54	0
142	UNIVERSITY OF CENTRAL ARKANSAS	95	41	54	0
143	UNIVERSITY OF THE DISTRICT OF COLUMBIA	94	58	36	0
144	NORTH CAROLINA CENTRAL UNIVERSITY	93	46	47	0
145	UNIVERSITY OF WISCONSIN - STOUT	93	52	41	0
146	PRAIRIE VIEW A & M UNIVERSITY	92	72	20	0
147	SONOMA STATE UNIVERSITY	91	23	68	0
148	TUSKEGEE INSTITUTE	91	84	7	0
149	UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	90	9	81	0
150	MIDWESTERN STATE UNIVERSITY	88	53	35	0
	TOTAL, 1ST 150 INSTS.	46,415	16,245	30,170	28
151	VALDOSTA STATE COLLEGE	87	52	35	0
152	BRADLEY UNIVERSITY	87	27	60	0
153	GANNON COLLEGE	86	37	49	0
154	SOUTHWEST MISSOURI STATE UNIVERSITY	84	30	54	0
155	NORTHWEST MISSOURI STATE UNIVERSITY	84	32	52	0
156	UNIVERSITY OF WISCONSIN - LA CROSSE	84	64	20	0
157	FROSTBURG STATE COLLEGE	82	30	52	0
158	UNIVERSITY OF WISCONSIN - EAU CLAIRE	82	43	39	0
159	WIDENER UNIVERSITY	82	13	69	0
160	WASHINGTON COLLEGE	82	0	82	0
	TOTAL, 1ST 160 INSTS.	47,255	16,573	30,682	28
161	CENTRAL WASHINGTON UNIVERSITY	81	57	24	0
162	WEST GEORGIA COLLEGE	81	59	22	0
163	UNIVERSITY OF WISCONSIN - GREEN BAY	80	32	48	0
164	BUTLER UNIVERSITY	77	6	71	0
165	ST MARY'S COLLEGE	77	58	19	0
166	NEW MEXICO HIGHLANDS UNIVERSITY	77	75	2	0
167	SOUTHERN UNIVERSITY A & M COLLEGE	74	42	32	0
168	SUNY COLLEGE AT GENESEO	74	54	20	0
169	HAMPTON INSTITUTE	73	44	29	0
170	GEORGIA SOUTHERN COLLEGE	73	57	16	0
	TOTAL, 1ST 170 INSTS.	48,022	17,057	30,965	28
171	ANGELO STATE UNIVERSITY	71	20	51	0
172	CALIFORNIA STATE COLLEGE AT BAKERSFIELD	71	10	61	0
173	MOREHEAD STATE UNIVERSITY	69	40	29	0
174	MILWAUKEE SCHOOL OF ENGINEERING	69	0	69	0
175	MIDWEST COLLEGE OF ENGINEERING	67	6	61	0
176	TARLETON STATE UNIVERSITY	67	55	12	0
177	VIRGINIA STATE UNIVERSITY	65	38	27	0
178	JACKSONVILLE STATE UNIVERSITY	64	20	44	0
179	INDIANA CENTRAL UNIVERSITY	64	58	6	0
180	NORTHEAST MISSOURI STATE UNIVERSITY	63	42	21	0
	TOTAL, 1ST 180 INSTS.	48,692	17,346	31,346	28

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TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
181 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	63	17	46	0
182 PRATT INSTITUTE	63	15	48	0
183 AUSTIN PEAY STATE UNIVERSITY	63	25	38	0
184 SUNY COLLEGE AT BUFFALO	62	28	34	2
185 ROLLINS COLLEGE	62	26	36	0
186 MORGAN STATE UNIVERSITY	61	31	30	0
187 WHITWORTH COLLEGE	61	61	0	0
188 SUL ROSS STATE UNIVERSITY	60	41	19	0
189 FLORIDA A & M UNIVERSITY	60	52	8	0
190 COLLEGE OF CHARLESTON	59	11	48	0
TOTAL, 1ST 190 INSTS.	49,306	17,653	31,653	30
191 UNIV OF ALASKA SOUTHEAST	57	10	47	0
192 CLARION STATE COLLEGE	56	19	37	0
193 MARIST COLLEGE	55	25	30	0
194 ST JOSEPH COLLEGE	54	0	54	0
195 COPPIN STATE COLLEGE	53	20	33	0
196 MOORHEAD STATE UNIVERSITY	52	33	19	0
197 CHICAGO STATE UNIVERSITY	52	3	49	0
198 CITADEL MILITARY COLL OF SOUTH CAROLINA	51	3	48	0
199 UNIVERSITY OF WISCONSIN - PLATTEVILLE	51	30	21	0
200 MONTEREY INST OF INTL STUDIES	51	47	4	0
TOTAL, 1ST 200 INSTS.	49,838	17,843	31,995	30
201 SARAH LAWRENCE COLLEGE	50	47	3	0
202 KUTZTOWN STATE COLLEGE	49	3	46	0
203 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	46	43	3	0
204 SUNY COLLEGE AT PLATTSBURGH	44	36	8	1
205 ST JOSEPH'S UNIVERSITY	44	21	23	0
206 EAST CENTRAL OKLAHOMA STATE UNIV	44	29	15	0
207 UNIVERSITY OF WISCONSIN - WHITEWATER	43	31	12	0
208 ITHACA COLLEGE	43	29	14	0
209 UNIV OF MASSACHUSETTS-BOSTON	42	18	24	0
210 CUNY LEHMAN COLLEGE	42	33	9	1
TOTAL, 1ST 210 INSTS.	50,285	18,133	32,152	32
211 DOMINICAN COLLEGE OF SAN RAFAEL	42	20	22	0
212 UNIVERSITY OF REDLANDS	41	24	17	0
213 NORTHROP UNIVERSITY	40	24	16	0
214 ADAMS STATE UNIVERSITY	39	17	22	0
215 BOSTON STATE COLLEGE	39	8	31	0
216 SOUTHERN OREGON STATE COLLEGE	39	27	12	0
217 COOPER UNION	39	27	12	0
218 RIVIER COLLEGE	38	0	38	0
219 UNIVERSITY OF RICHMOND	38	17	21	0
220 FISK UNIVERSITY	37	36	1	1
TOTAL, 1ST 220 INSTS.	50,677	18,333	32,344	33
221 ABILENE CHRISTIAN UNIVERSITY	36	20	16	0
222 TRINITY COLLEGE	35	0	35	0
223 SUNY COLLEGE AT FREDONIA	35	19	16	0
224 JOHN CARROLL UNIVERSITY	35	18	17	2
225 SAINT FRANCIS COLLEGE	33	8	25	0
226 UNIVERSITY OF GUAM	33	15	18	0
227 WINTHROP COLLEGE	31	18	13	0
228 PAN AMERICAN UNIVERSITY	30	10	20	0
229 NIAGARA UNIVERSITY	29	12	17	0
230 AUGUSTA COLLEGE	29	23	6	0
TOTAL, 1ST 230 INSTS.	51,003	18,476	32,527	35
231 JACKSONVILLE UNIVERSITY	29	0	29	0
232 PACIFIC STATES UNIVERSITY	28	22	6	0
233 EMERSON COLLEGE	28	27	1	0
234 ST CLOUD STATE UNIVERSITY	27	8	19	0
235 CONNECTICUT COLLEGE	27	20	7	0
236 CALIFORNIA LUTHERAN COLLEGE	26	1	25	0
237 DREW UNIVERSITY	24	5	19	0
238 EAST STROUDSBURG STATE COLLEGE	24	6	18	0
239 WILLIAMS COLLEGE	23	23	0	0
240 GRAMBLING STATE UNIVERSITY	23	15	8	0
TOTAL, 1ST 240 INSTS.	51,262	18,603	32,659	35

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TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
241 FLORIDA INTERNATIONAL UNIVERSITY	22	7	15	0
242 SOUTHEAST MISSOURI STATE UNIVERSITY	22	11	11	0
243 MISSISSIPPI UNIVERSITY FOR WOMEN	22	12	10	0
244 LORAS COLLEGE	21	0	21	0
245 UNIVERSITY OF MONTEVALLO	20	14	6	0
246 SUNY COLLEGE AT POTSDAM	20	7	13	0
247 WESTERN CONNECTICUT STATE COLLEGE	18	1	17	0
248 BLOOMSBURG STATE COLLEGE	17	4	13	0
249 SUNY COLLEGE AT OSWEGO	17	9	8	0
250 BUCKNELL UNIVERSITY	17	13	4	0
TOTAL, 1ST 250 INSTS.	51,458	18,681	32,777	35
251 UNIVERSITY OF PUGET SOUND	17	17	0	0
252 BEMIDJI STATE UNIVERSITY	16	9	7	0
253 MANSFIELD STATE COLLEGE	16	11	5	0
254 MOUNT HOLYOKE COLLEGE	16	12	4	0
255 WASHBURN UNIV OF TOPEKA	16	5	11	0
256 WESTERN NEW MEXICO UNIVERSITY	15	9	6	0
257 UNIVERSITY OF NORTH ALABAMA	15	0	15	0
258 ARMSTRONG STATE COLLEGE	15	1	14	0
259 SOUTHEASTERN LOUISIANA UNIVERSITY	15	11	4	0
260 GALLAUDET COLLEGE	14	14	0	0
TOTAL, 1ST 260 INSTS.	51,613	18,770	32,843	35
261 SUNY COLLEGE AT CORTLAND	13	6	7	0
262 ALABAMA STATE UNIVERSITY	13	11	2	0
263 NICHOLLS STATE UNIVERSITY	13	7	6	0
264 KEARNEY STATE COLLEGE	12	10	2	0
265 CUNY COLLEGE OF STATEN ISLAND ST GEORGE	12	5	7	0
266 SAMFORD UNIVERSITY	12	4	8	0
267 HOLY NAMES COLLEGE	10	3	7	0
268 WESTERN STATE COLLEGE OF COLORADO	10	7	3	0
269 HOLLINS COLLEGE	9	9	0	0
270 WALLA WALLA COLLEGE	9	9	0	0
TOTAL, 1ST 270 INSTS.	51,726	18,841	32,885	35
271 INCARNATE WORD COLLEGE	8	5	3	0
272 LYNCHBURG COLLEGE	8	3	5	0
273 SLIPPERY ROCK STATE COLLEGE	7	7	0	0
274 BRIDGEWATER STATE COLLEGE	7	0	7	0
275 HARVEY MUDD COLLEGE	7	7	0	0
276 SUNY COLLEGE AT ONEONTA	6	3	3	0
277 WILKES COLLEGE	5	0	5	0
278 FURMAN UNIVERSITY	5	5	0	0
279 UNIVERSITY OF WISCONSIN - RIVER FALLS	5	3	2	0
280 CAMPBELL UNIVERSITY	5	0	5	0
TOTAL, 1ST 280 INSTS.	51,789	18,874	32,915	35
281 OCCIDENTAL COLLEGE	4	3	1	0
282 PACIFIC UNIVERSITY	4	4	0	0
283 SALEM STATE COLLEGE	4	0	4	0
284 COLLEGE OF THE HOLY CROSS	4	4	0	0
285 DE PAUW UNIVERSITY	4	4	0	0
286 GODDARD COLLEGE	4	4	0	0
287 WINONA STATE UNIVERSITY	4	0	4	0
288 STETSON UNIVERSITY	3	0	3	0
289 VASSAR COLLEGE	2	0	2	0
290 LOYOLA UNIVERSITY IN NEW ORLEANS	2	0	2	0
TOTAL, 1ST 290 INSTS.	51,824	18,893	32,931	35
291 MIDDLEBURY COLLEGE	2	2	0	0
292 WHITTIER COLLEGE	2	1	1	0
293 ROSE-HULMAN INSTITUTE OF TECHNOLOGY	1	1	0	0
294 PACIFIC UNION COLLEGE	1	1	0	0
295 SWARTHMORE COLLEGE	1	1	0	0
296 WORLD UNIVERSITY	0	0	0	0
297 OBERLIN COLLEGE	0	0	0	0
298 CHEYNEY STATE COLLEGE	0	0	0	0
299 TROY STATE UNIVERSITY	0	0	0	0
300 HENDERSON STATE UNIVERSITY	0	0	0	0
TOTAL, 1ST 300 INSTS.	51,831	18,899	32,932	35
301 MISSISSIPPI COLLEGE	0	0	0	0
302 NORWICH UNIVERSITY	0	0	0	0
TOTAL, 1ST 302 INSTS.	51,831	18,899	32,932	35

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	24,097	9,048	15,041	8
1 SAN JOSE STATE UNIVERSITY	832	329	502	1
2 CALIF STATE UNIV AT LONG BEACH	799	160	639	0
3 CALIF STATE UNIV AT LOS ANGELES	712	387	325	0
4 CALIF STATE UNIVERSITY AT SACRAMENTO	630	286	344	0
5 ANTIOCH UNIVERSITY	591	582	9	0
6 CALIF STATE UNIV AT FULLERTON	505	84	421	0
7 SAN FRANCISCO STATE UNIVERSITY	499	176	322	1
8 CALIF STATE UNIVERSITY AT NORTHRIDGE	492	185	307	0
9 CALIF STATE UNIV AT DOMINGUEZ HILLS	416	378	38	0
10 SANGAMON STATE UNIVERSITY	376	68	308	0
TOTAL, 1ST 10 INSTS.	5,852	2,635	3,215	2
11 JOHN F KENNEDY UNIVERSITY	366	145	221	0
12 RUSSELL SAGE COLLEGE	332	33	299	0
13 TOWSON STATE UNIVERSITY	313	64	249	0
14 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	312	33	279	0
15 ROOSEVELT UNIVERSITY	308	53	255	0
16 CALIF STATE UNIVERSITY AT FRESNO	295	87	208	0
17 GEORGE WILLIAMS COLLEGE	291	144	147	0
18 MARYWOOD COLLEGE	276	29	247	0
19 CUNY BERNARD BARUCH COLLEGE	275	49	226	0
20 LOYOLA COLLEGE	262	59	203	0
TOTAL, 1ST 20 INSTS.	8,882	3,331	5,549	2
21 CALIF STATE UNIV AT HAYWARD	262	77	185	0
22 HOOD COLLEGE	245	18	227	0
23 PEPPERDINE UNIVERSITY	230	48	182	0
24 PITTSBURG STATE UNIVERSITY	227	68	159	0
25 GOVERNORS STATE UNIVERSITY	222	25	197	0
26 WEST CHESTER STATE COLLEGE	212	42	170	0
27 WEST VIRGINIA COLLEGE OF GRAD STUDIES	211	20	191	0
28 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	196	39	157	0
29 SOUTHERN CONNECTICUT STATE COLLEGE	191	89	102	0
30 LOYOLA MARYMOUNT UNIVERSITY	187	135	52	0
TOTAL, 1ST 30 INSTS.	11,065	3,892	7,171	2
31 BARRY COLLEGE	186	93	93	0
32 MONTCLAIR STATE COLLEGE	183	23	160	0
33 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	178	83	95	0
34 EASTERN MICHIGAN UNIVERSITY	176	76	100	0
35 UNIVERSITY OF SAN FRANCISCO	173	162	11	0
36 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	173	134	39	0
37 WILLIAM PATTERSON COLLEGE	169	73	96	0
38 CUNY QUEENS COLLEGE	162	81	79	2
39 UNIVERSITY OF NEW HAVEN	161	24	137	0
40 SOUTHWEST TEXAS STATE UNIVERSITY	161	96	65	0
TOTAL, 1ST 40 INSTS.	12,787	4,737	8,046	4
41 FRAMINGHAM STATE COLLEGE	159	20	139	0
42 NORTHWESTERN STATE UNIV OF LOUISIANA	147	47	100	0
43 ANNA MARIA COLLEGE	145	3	142	0
44 EMPORIA STATE UNIVERSITY - KANSAS	144	57	87	0
45 UNIVERSITY OF WEST FLORIDA	143	46	97	0
46 ROCHESTER INSTITUTE OF TECHNOLOGY	140	17	123	0
47 AZUSA PACIFIC COLLEGE	139	125	14	0
48 COLLEGE OF NEW ROCHELLE	138	13	125	0
49 UNIVERSITY OF BRIDGEPORT	134	31	103	0
50 MIDDLE TENNESSEE STATE UNIVERSITY	131	51	80	0
TOTAL, 1ST 50 INSTS.	14,207	5,147	9,056	4
51 WAGNER COLLEGE	131	10	121	0
52 UNIVERSITY OF HARTFORD	128	51	77	0
53 EASTERN WASHINGTON UNIVERSITY	124	94	30	0
54 JAMES MADISON UNIVERSITY	123	64	59	0
55 EASTERN NEW MEXICO UNIVERSITY	123	41	81	1
56 WESTERN WASHINGTON UNIVERSITY	123	63	60	0
57 ASSUMPTION COLLEGE	122	24	98	0
58 UNIVERSITY OF BALTIMORE	122	24	98	0
59 NATIONAL UNIVERSITY	119	82	37	0
60 UNIVERSITY OF WISCONSIN - OSHKOSH	119	35	84	0
TOTAL, 1ST 60 INSTS.	15,441	5,635	9,801	5

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TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
61 UNIVERSITY OF LA VERNE	118	28	90	0
62 THE HARTFORD GRADUATE CENTER	117	4	113	0
63 CUNY BROOKLYN COLLEGE	116	3	113	0
64 WEST TEXAS STATE UNIVERSITY	113	20	93	0
65 WORCESTER STATE COLLEGE	112	0	112	0
66 CHAPMAN COLLEGE	111	8	103	0
67 RIDER COLLEGE	111	2	109	0
68 MANKATO STATE UNIVERSITY	109	51	58	0
69 CALIF STATE COLLEGE OF STANISLAUS	109	63	46	0
70 UNIVERSITY OF NEVADA AT LAS VEGAS	108	44	64	0
TOTAL, 1ST 70 INSTS.	16,565	5,858	10,702	5
71 BISCAYNE COLLEGE	106	45	61	0
72 NORTHEASTERN ILLINOIS UNIVERSITY	105	4	101	0
73 EDINBORO STATE COLLEGE	104	34	70	0
74 TRINITY UNIVERSITY	101	65	35	1
75 WESTERN ILLINOIS UNIVERSITY	100	73	27	0
76 IONA COLLEGE	99	1	98	0
77 TRENTON STATE COLLEGE	97	6	91	0
78 QUINNIPIAC COLLEGE	94	5	89	0
79 ST MARY'S UNIVERSITY OF SAN ANTONIO	93	29	64	0
80 SEATTLE UNIVERSITY	92	13	79	0
TOTAL, 1ST 80 INSTS.	17,556	6,133	11,417	6
81 SPALDING COLLEGE	91	10	81	0
82 EASTERN ILLINOIS UNIVERSITY	90	67	23	0
83 CALIF STATE UNIVERSITY AT CHICO	90	90	0	0
84 UNIVERSITY OF PORTLAND	90	86	4	0
85 UNIVERSITY OF SCRANTON	88	43	45	0
86 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	87	40	47	0
87 TENNESSEE STATE UNIVERSITY	86	20	66	0
88 SUFFOLK UNIVERSITY	82	9	73	0
89 UNIVERSITY OF EVANSVILLE	80	5	75	0
90 TEXAS SOUTHERN UNIVERSITY	79	49	30	0
TOTAL, 1ST 90 INSTS.	18,419	6,552	11,861	6
91 COLLEGE OF ST ROSE	79	1	78	0
92 UNIVERSITY OF SAN DIEGO	79	34	45	0
93 MILLERSVILLE STATE COLLEGE	79	14	65	0
94 XAVIER UNIVERSITY	79	58	21	0
95 UNIVERSITY OF TEXAS AT TYLER	78	16	62	0
96 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	77	57	20	0
97 UNIVERSITY OF CENTRAL ARKANSAS	75	28	47	0
98 VALPARAISO UNIVERSITY	74	2	72	0
99 SUNY COLLEGE AT BROCKPORT	74	24	50	0
100 JACKSON STATE UNIVERSITY	74	33	41	0
TOTAL, 1ST 100 INSTS.	19,187	6,819	12,362	6
101 INDIANA UNIVERSITY OF PENNSYLVANIA	72	25	47	0
102 RHODE ISLAND COLLEGE	71	12	59	0
103 AMERICAN INTERNATIONAL COLLEGE	71	18	53	0
104 GEORGIA COLLEGE	70	3	67	0
105 WESTERN KENTUCKY UNIVERSITY	70	41	29	0
106 UNIVERSITY OF WISCONSIN - STEVENS POINT	69	41	28	0
107 ANDREWS UNIVERSITY	69	17	52	0
108 KEAN COLLEGE OF NEW JERSEY	68	6	62	0
109 APPALACHIAN STATE UNIVERSITY	67	41	26	0
110 FORT HAYS STATE UNIVERSITY	66	19	47	0
TOTAL, 1ST 110 INSTS.	19,880	7,042	12,832	6
111 ALABAMA A & M UNIVERSITY	64	50	14	0
112 RADFORD UNIVERSITY	63	36	27	0
113 DRAKE UNIVERSITY	63	14	49	0
114 CENTRAL CONNECTICUT STATE COLLEGE	62	14	48	0
115 HAMPTON INSTITUTE	62	35	27	0
116 WESTERN CAROLINA UNIVERSITY	61	41	19	1
117 UNIVERSITY OF WISCONSIN - EAU CLAIRE	61	35	26	0
118 CENTRAL MISSOURI STATE UNIVERSITY	61	26	35	0
119 UNIV OF ALASKA AT ANCHORAGE	59	17	42	0
120 PACIFIC LUTHERAN UNIVERSITY	59	27	32	0
TOTAL, 1ST 120 INSTS.	20,495	7,337	13,151	7

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TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
121 ST MARY'S COLLEGE	58	44	14	0
122 CORPUS CHRISTI STATE UNIVERSITY	57	20	37	0
123 EASTERN KENTUCKY UNIVERSITY	56	29	27	0
124 UNIVERSITY OF TEXAS AT SAN ANTONIO	55	15	40	0
125 AMERICAN TECHNOLOGICAL UNIVERSITY	54	15	39	0
126 WESTERN OREGON STATE COLLEGE	54	14	40	0
127 CENTRAL WASHINGTON UNIVERSITY	53	32	21	0
128 CALIF STATE COLLEGE AT SAN BERNARDINO	53	27	26	0
129 NORTHERN MICHIGAN UNIVERSITY	50	18	32	0
130 WASHINGTON COLLEGE	49	0	49	0
TOTAL, 1ST 130 INSTS.	21,034	7,551	13,476	7
131 SUNY COLLEGE AT NEW PALTZ	48	23	25	0
132 SARAH LAWRENCE COLLEGE	47	44	3	0
133 ARKANSAS STATE UNIVERSITY	47	22	25	0
134 UNIVERSITY OF THE DISTRICT OF COLUMBIA	46	28	18	0
135 SUNY COLLEGE AT GENESEO	45	33	12	0
136 WHITWORTH COLLEGE	45	45	0	0
137 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	45	6	39	0
138 SONOMA STATE UNIVERSITY	44	11	33	0
139 VALDOSTA STATE COLLEGE	44	33	11	0
140 NORTH CAROLINA CENTRAL UNIVERSITY	44	20	24	0
TOTAL, 1ST 140 INSTS.	21,489	7,816	13,666	7
141 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	44	10	34	0
142 MIDWESTERN STATE UNIVERSITY	44	23	21	0
143 PRAIRIE VIEW A & M UNIVERSITY	42	29	13	0
144 SOUTHWEST MISSOURI STATE UNIVERSITY	41	17	24	0
145 UNIVERSITY OF WISCONSIN - LA CROSSE	40	28	12	0
146 NORTHWEST MISSOURI STATE UNIVERSITY	40	13	27	0
147 ST JOSEPH COLLEGE	40	0	40	0
148 HUMBOLDT STATE UNIVERSITY	40	25	15	0
149 DOMINICAN COLLEGE OF SAN RAFAEL	40	19	21	0
150 UNIV OF NORTH CAROLINA AT CHARLOTTE	40	16	24	0
TOTAL, 1ST 150 INSTS.	21,900	7,996	13,897	7
151 CALIFORNIA STATE COLLEGE	39	12	27	0
152 MCNEESE STATE UNIVERSITY	39	15	24	0
153 ITHACA COLLEGE	39	26	13	0
154 UNIVERSITY OF WISCONSIN - STOUT	39	16	23	0
155 NEW MEXICO HIGHLANDS UNIVERSITY	38	37	1	0
156 MOREHEAD STATE UNIVERSITY	37	20	17	0
157 UNIVERSITY OF REDLANDS	37	21	16	0
158 NORTHEAST MISSOURI STATE UNIVERSITY	36	25	11	0
159 MOORHEAD STATE UNIVERSITY	35	24	11	0
160 MARIST COLLEGE	35	15	20	0
TOTAL, 1ST 160 INSTS.	22,274	8,207	14,060	7
161 SHIPPENSBURG STATE COLLEGE	35	6	29	0
162 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	35	5	30	0
163 UNIVERSITY OF WISCONSIN - WHITEWATER	35	25	10	0
164 VIRGINIA STATE UNIVERSITY	33	23	10	0
165 FROSTBURG STATE COLLEGE	33	11	22	0
166 CITADEL MILITARY COLL OF SOUTH CAROLINA	33	3	30	0
167 GANNON COLLEGE	32	13	19	0
168 GEORGIA SOUTHERN COLLEGE	32	29	3	0
169 UNIVERSITY OF WISCONSIN - GREEN BAY	32	12	20	0
170 JACKSONVILLE STATE UNIVERSITY	31	9	22	0
TOTAL, 1ST 170 INSTS.	22,605	8,343	14,255	7
171 SOUTHERN UNIVERSITY A & M COLLEGE	30	12	18	0
172 MURRAY STATE UNIVERSITY	30	21	9	0
173 AUSTIN PEAY STATE UNIVERSITY	30	11	19	0
174 MONMOUTH COLLEGE(NJ)	30	3	27	0
175 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	29	9	20	0
176 TROY STATE UNIVERSITY AT MONTGOMERY	29	0	29	0
177 BUTLER UNIVERSITY	29	1	28	0
178 WEST GEORGIA COLLEGE	27	16	11	0
179 WINTHROP COLLEGE	27	15	12	0
180 TUSKEGEE INSTITUTE	27	26	1	0
TOTAL, 1ST 180 INSTS.	22,893	8,457	14,429	7

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TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
181 COPPIN STATE COLLEGE	27	11	16	0
182 SUNY COLLEGE AT PLATTSBURGH	26	18	8	0
183 ANGELO STATE UNIVERSITY	26	10	16	0
184 EMERSON COLLEGE	26	25	1	0
185 INDIANA CENTRAL UNIVERSITY	26	25	1	0
186 EAST CENTRAL OKLAHOMA STATE UNIV	26	18	8	0
187 NORTH CAROLINA A & T STATE UNIVERSITY	25	21	4	0
188 CHICAGO STATE UNIVERSITY	25	2	23	0
189 ADAMS STATE UNIVERSITY	24	11	13	0
190 MANHATTAN COLLEGE	24	10	14	0
TOTAL, 1ST 190 INSTS.	23,148	8,608	14,533	7
191 WESTERN NEW ENGLAND COL	23	0	23	0
192 SUNY COLLEGE AT BUFFALO	22	12	10	0
193 COLLEGE OF CHARLESTON	22	7	15	0
194 YOUNGSTOWN STATE UNIVERSITY	22	4	18	0
195 MISSISSIPPI UNIVERSITY FOR WOMEN	22	12	10	0
196 FLORIDA INTERNATIONAL UNIVERSITY	21	7	14	0
197 MORGAN STATE UNIVERSITY	21	9	12	0
198 CLARION STATE COLLEGE	20	4	16	0
199 KUTZTOWN STATE COLLEGE	20	1	19	0
200 AUGUSTA COLLEGE	20	17	3	0
TOTAL, 1ST 200 INSTS.	23,361	8,681	14,673	7
201 SUL ROSS STATE UNIVERSITY	19	14	5	0
202 PRATT INSTITUTE	19	4	15	0
203 BRADLEY UNIVERSITY	19	8	11	0
204 CUNY LEHMAN COLLEGE	19	13	5	1
205 FLORIDA A & M UNIVERSITY	18	15	3	0
206 UNIVERSITY OF MONTEVALLO	18	12	6	0
207 ABILENE CHRISTIAN UNIVERSITY	18	11	7	0
208 RIVIER COLLEGE	18	0	18	0
209 UNIVERSITY OF RICHMOND	18	8	10	0
210 SAINT FRANCIS COLLEGE	18	4	14	0
TOTAL, 1ST 210 INSTS.	23,545	8,770	14,767	8
211 FISK UNIVERSITY	17	17	0	0
212 MONTEREY INST OF INTL STUDIES	17	15	2	0
213 MOUNT HOLYOKE COLLEGE	16	12	4	0
214 CONNECTICUT COLLEGE	16	10	6	0
215 SOUTHERN OREGON STATE COLLEGE	16	12	4	0
216 MERT COAST UNIVERSITY	15	13	2	0
217 UNIV OF ALASKA SOUTHEAST	15	3	12	0
218 BOSTON STATE COLLEGE	15	3	12	0
219 PAN AMERICAN UNIVERSITY	15	7	8	0
220 UNIV OF MASSACHUSETTS-BOSTON	14	4	10	0
TOTAL, 1ST 220 INSTS.	23,701	8,866	14,827	8
221 JACKSONVILLE UNIVERSITY	14	0	14	0
222 TARLETON STATE UNIVERSITY	14	14	0	0
223 ST JOSEPH'S UNIVERSITY	14	6	8	0
224 JOHN CARROLL UNIVERSITY	13	6	7	0
225 GALLAUDET COLLEGE	12	12	0	0
226 UNIVERSITY OF PUGET SOUND	12	12	0	0
227 ST CLOUD STATE UNIVERSITY	11	3	8	0
228 SOUTHEAST MISSOURI STATE UNIVERSITY	11	5	6	0
229 ROLLINS COLLEGE	11	2	9	0
230 BLOOMSBURG STATE COLLEGE	11	2	9	0
TOTAL, 1ST 230 INSTS.	23,824	8,928	14,888	8
231 SUNY COLLEGE AT FREDONIA	11	6	5	0
232 EAST STROUDSBURG STATE COLLEGE	10	2	8	0
233 NICHOLLS STATE UNIVERSITY	10	5	5	0
234 SUNY COLLEGE AT POTSDAM	10	3	7	0
235 MANSFIELD STATE COLLEGE	10	6	4	0
236 WESTERN NEW MEXICO UNIVERSITY	10	6	4	0
237 NIAGARA UNIVERSITY	10	3	7	0
238 GRAMBLING STATE UNIVERSITY	9	6	3	0
239 UNIVERSITY OF GUAM	8	3	5	0
240 CALIFORNIA LUTHERAN COLLEGE	8	0	8	0
TOTAL, 1ST 240 INSTS.	23,920	8,968	14,944	8

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TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
241 LORAS COLLEGE	8	0	8	0
242 TRINITY COLLEGE	8	0	8	0
243 WIDENER UNIVERSITY	8	1	7	0
244 SAMFORD UNIVERSITY	7	2	5	0
245 UNIVERSITY OF WISCONSIN - PLATTEVILLE	7	3	4	0
246 SOUTHEASTERN LOUISIANA UNIVERSITY	7	5	2	0
247 INCARNATE WORD COLLEGE	6	5	1	0
248 HOLLINS COLLEGE	6	6	0	0
249 WESTERN CONNECTICUT STATE COLLEGE	6	0	6	0
250 SUNY COLLEGE AT CORTLAND	6	2	4	0
TOTAL, 1ST 250 INSTS.	23,989	8,992	14,989	8
251 WILLIAMS COLLEGE	6	6	0	0
252 ALABAMA STATE UNIVERSITY	6	5	1	0
253 WESTERN STATE COLLEGE OF COLORADO	6	4	2	0
254 ARMSTRONG STATE COLLEGE	6	0	6	0
255 DREW UNIVERSITY	6	1	5	0
256 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	5	5	0	0
257 KEARNEY STATE COLLEGE	5	4	1	0
258 WASHBURN UNIV OF TOPEKA	4	1	3	0
259 HOLY NAMES COLLEGE	4	1	3	0
260 MILWAUKEE SCHOOL OF ENGINEERING	4	0	4	0
TOTAL, 1ST 260 INSTS.	24,041	9,019	15,014	8
261 CUNY COLLEGE OF STATEN ISLAND ST GEORGE	4	2	2	0
262 FURMAN UNIVERSITY	3	3	0	0
263 STETSON UNIVERSITY	3	0	3	0
264 COOPER UNION	3	2	1	0
265 WALLA WALLA COLLEGE	3	3	0	0
266 BEMIDJI STATE UNIVERSITY	3	3	0	0
267 MIDWEST COLLEGE OF ENGINEERING	3	0	3	0
268 BUCKNELL UNIVERSITY	3	3	0	0
269 BRIDGEWATER STATE COLLEGE	3	0	3	0
270 SUNY COLLEGE AT OSWEGO	2	1	1	0
TOTAL, 1ST 270 INSTS.	24,071	9,036	15,027	8
271 WINONA STATE UNIVERSITY	2	0	2	0
272 SLIPPERY ROCK STATE COLLEGE	2	2	0	0
273 WILKES COLLEGE	2	0	2	0
274 CAMPBELL UNIVERSITY	2	0	2	0
275 VASSAR COLLEGE	2	0	2	0
276 GODDARD COLLEGE	2	2	0	0
277 NORTHROP UNIVERSITY	2	1	1	0
278 UNIVERSITY OF NORTH ALABAMA	2	0	2	0
279 LOYOLA UNIVERSITY IN NEW ORLEANS	1	0	1	0
280 LYNCHBURG COLLEGE	1	0	1	0
TOTAL, 1ST 280 INSTS.	24,089	9,041	15,040	8
281 PACIFIC UNIVERSITY	1	1	0	0
282 OCCIDENTAL COLLEGE	1	1	0	0
283 SALEM STATE COLLEGE	1	0	1	0
284 CALIF STATE POLYTECHNIC UNIV AT POMONA	1	1	0	0
285 COLLEGE OF THE HOLY CROSS	1	1	0	0
286 HARVEY MUDD COLLEGE	1	1	0	0
287 SWARTHMORE COLLEGE	1	1	0	0
288 PACIFIC STATES UNIVERSITY	1	1	0	0
289 DE PAUW UNIVERSITY	0	0	0	0
290 TROY STATE UNIVERSITY	0	0	0	0
TOTAL, 1ST 290 INSTS.	24,097	9,048	15,041	8
291 PACIFIC UNION COLLEGE	0	0	0	0
292 NORWICH UNIVERSITY	0	0	0	0
293 ROSE-HULMAN INSTITUTE OF TECHNOLOGY	0	0	0	0
294 MISSISSIPPI COLLEGE	0	0	0	0
295 MIDDLEBURY COLLEGE	0	0	0	0
296 HENDERSON STATE UNIVERSITY	0	0	0	0
297 CHEYNEY STATE COLLEGE	0	0	0	0
298 UNIVERSITY OF WISCONSIN - RIVER FALLS	0	0	0	0
299 WORLD UNIVERSITY	0	0	0	0
300 WHITTIER COLLEGE	0	0	0	0
TOTAL, 1ST 300 INSTS.	24,097	9,048	15,041	8
301 OBERLIN COLLEGE	0	0	0	0
302 SUNY COLLEGE AT ONEONTA	0	0	0	0
TOTAL, 1ST 302 INSTS.	24,097	9,048	15,041	8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

	INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
	TOTAL, ALL INSTITUTIONS	2,189	937	1,252
1	CALIF STATE UNIV AT DOMINGUEZ HILLS	112	84	28
2	UNIVERSITY OF BALTIMORE	107	24	83
3	GOVERNORS STATE UNIVERSITY	102	17	85
4	NORTH CAROLINA CENTRAL UNIVERSITY	83	37	46
5	TENNESSEE STATE UNIVERSITY	80	27	53
6	CALIF STATE UNIV AT LOS ANGELES	80	16	64
7	BISCAYNE COLLEGE	77	28	49
8	PRAIRIE VIEW A & M UNIVERSITY	58	46	12
9	SOUTHERN UNIVERSITY A & M COLLEGE	54	22	32
10	CALIF STATE UNIV AT HAYWARD	48	9	39
	TOTAL, 1ST 10 INSTS.	801	310	491
11	ALABAMA A & M UNIVERSITY	48	33	15
12	HAMPTON INSTITUTE	45	27	18
13	UNIVERSITY OF THE DISTRICT OF COLUMBIA	43	34	9
14	VIRGINIA STATE UNIVERSITY	42	24	18
15	TOWSON STATE UNIVERSITY	37	6	31
16	SAN FRANCISCO STATE UNIVERSITY	36	16	20
17	UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	35	4	31
18	UNIVERSITY OF ARKANSAS AT LITTLE ROCK	34	10	24
19	MORGAN STATE UNIVERSITY	34	16	18
20	LOYOLA COLLEGE	34	9	25
	TOTAL, 1ST 20 INSTS.	1,189	489	700
21	SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	32	26	6
22	CHICAGO STATE UNIVERSITY	31	2	29
23	NORTH CAROLINA A & T STATE UNIVERSITY	30	24	6
24	NATIONAL UNIVERSITY	30	21	9
25	WEST VIRGINIA COLLEGE OF GRAD STUDIES	29	3	26
26	TUSKEGEE INSTITUTE	29	29	0
27	CALIF STATE UNIV AT LONG BEACH	29	17	12
28	TROY STATE UNIVERSITY AT MONTGOMERY	28	0	28
29	PEPPERDINE UNIVERSITY	25	6	19
30	MIDDLE TENNESSEE STATE UNIVERSITY	23	12	11
	TOTAL, 1ST 30 INSTS.	1,475	629	846
31	GRAMBLING STATE UNIVERSITY	23	15	8
32	ROCHESTER INSTITUTE OF TECHNOLOGY	21	1	20
33	CUNY QUEENS COLLEGE	18	9	9
34	BARRY COLLEGE	17	13	4
35	TRINITY UNIVERSITY	17	16	1
36	EASTERN MICHIGAN UNIVERSITY	17	7	10
37	ANTIOCH UNIVERSITY	17	17	0
38	SOUTHERN CONNECTICUT STATE COLLEGE	17	11	6
39	NORTHWESTERN STATE UNIV OF LOUISIANA	17	8	9
40	GEORGE WILLIAMS COLLEGE	16	11	5
	TOTAL, 1ST 40 INSTS.	1,655	737	918
41	JOHN F KENNEDY UNIVERSITY	16	5	11
42	COLLEGE OF NEW ROCHELLE	15	4	11
43	CALIF STATE UNIV AT FULLERTON	14	1	13
44	AMERICAN TECHNOLOGICAL UNIVERSITY	14	3	11
45	RIDER COLLEGE	13	0	13
46	AMERICAN INTERNATIONAL COLLEGE	13	9	4
47	CALIF STATE UNIVERSITY AT NORTHRIDGE	12	2	10
48	WESTERN KENTUCKY UNIVERSITY	12	5	7
49	LOYOLA MARYMOUNT UNIVERSITY	12	8	4
50	AZUSA PACIFIC COLLEGE	11	10	1
	TOTAL, 1ST 50 INSTS.	1,787	784	1,003
51	WEST COAST UNIVERSITY	11	11	0
52	ALABAMA STATE UNIVERSITY	11	9	2
53	ROLLINS COLLEGE	11	1	10
54	HOOD COLLEGE	10	3	7
55	IONA COLLEGE	10	0	10
56	WEST CHESTER STATE COLLEGE	10	2	8
57	ARKANSAS STATE UNIVERSITY	10	5	5
58	UNIVERSITY OF CENTRAL ARKANSAS	9	3	6
59	UNIVERSITY OF SAN FRANCISCO	9	9	0
60	UNIVERSITY OF BRIDGEPORT	9	0	9
	TOTAL, 1ST 60 INSTS.	1,887	827	1,060

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TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
61 UNIVERSITY OF TEXAS AT TYLER	9	2	7
62 UNIVERSITY OF WEST FLORIDA	9	2	7
63 UNIV OF ALASKA AT ANCHORAGE	8	4	4
64 TRENTON STATE COLLEGE	8	0	8
65 UNIVERSITY OF LA VERNE	8	1	7
66 XAVIER UNIVERSITY	8	5	3
67 ANDREWS UNIVERSITY	8	2	6
68 EASTERN NEW MEXICO UNIVERSITY	8	4	4
69 SEATTLE UNIVERSITY	8	0	8
70 MCNEESE STATE UNIVERSITY	7	6	1
TOTAL, 1ST 70 INSTS.	1,968	853	1,115
71 MANKATO STATE UNIVERSITY	7	6	1
72 SUNY COLLEGE AT BROCKPORT	7	3	4
73 MARYWOOD COLLEGE	7	4	3
74 WESTERN ILLINOIS UNIVERSITY	7	5	2
75 NORTHEASTERN ILLINOIS UNIVERSITY	6	0	6
76 GEORGIA SOUTHERN COLLEGE	6	3	3
77 RUSSELL SAGE COLLEGE	6	0	6
78 MANHATTAN COLLEGE	6	1	5
79 AUSTIN PEAY STATE UNIVERSITY	6	1	5
80 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	6	2	4
TOTAL, 1ST 80 INSTS.	2,032	878	1,154
81 SPALDING COLLEGE	6	0	6
82 UNIV OF NORTH CAROLINA AT CHARLOTTE	6	3	3
83 SAN JOSE STATE UNIVERSITY	5	2	3
84 SUL ROSS STATE UNIVERSITY	5	5	0
85 CALIF STATE COLLEGE AT SAN BERNARDINO	5	1	4
86 SHIPPENSBURG STATE COLLEGE	5	2	3
87 CITADEL MILITARY COLL OF SOUTH CAROLINA	5	0	5
88 UNIVERSITY OF WISCONSIN - OSHKOSH	4	1	3
89 CALIF STATE UNIVERSITY AT FRESNO	4	1	3
90 EASTERN WASHINGTON UNIVERSITY	4	4	0
TOTAL, 1ST 90 INSTS.	2,081	897	1,184
91 FLORIDA INTERNATIONAL UNIVERSITY	4	0	4
92 WEST GEORGIA COLLEGE	4	1	3
93 EASTERN KENTUCKY UNIVERSITY	4	1	3
94 UNIVERSITY OF RICHMOND	4	0	4
95 AUGUSTA COLLEGE	4	3	1
96 CALIF STATE COLLEGE OF STANISLAUS	4	2	2
97 EMPORIA STATE UNIVERSITY - KANSAS	3	1	2
98 COLLEGE OF CHARLESTON	3	1	2
99 SUNY COLLEGE AT BUFFALO	3	1	2
100 WEST TEXAS STATE UNIVERSITY	3	0	3
TOTAL, 1ST 100 INSTS.	2,117	907	1,210
101 ASSUMPTION COLLEGE	3	0	3
102 DOMINICAN COLLEGE OF SAN RAFAEL	3	1	2
103 SOUTHWEST TEXAS STATE UNIVERSITY	3	2	1
104 WINTHROP COLLEGE	3	2	1
105 DRAKE UNIVERSITY	3	1	2
106 SAINT FRANCIS COLLEGE	2	0	2
107 UNIVERSITY OF HARTFORD	2	2	0
108 TRINITY COLLEGE	2	0	2
109 UNIVERSITY OF NORTH ALABAMA	2	0	2
110 CALIFORNIA LUTHERAN COLLEGE	2	0	2
TOTAL, 1ST 110 INSTS.	2,142	915	1,227
111 UNIVERSITY OF WISCONSIN - PLATTEVILLE	2	2	0
112 UNIVERSITY OF WISCONSIN - LA CROSSE	2	2	0
113 UNIVERSITY OF WISCONSIN - GREEN BAY	2	1	1
114 ABILENE CHRISTIAN UNIVERSITY	2	1	1
115 MILLERSVILLE STATE COLLEGE	2	1	1
116 SUNY COLLEGE AT NEW PALTZ	2	1	1
117 UNIVERSITY OF TEXAS AT SAN ANTONIO	2	0	2
118 WESTERN OREGON STATE COLLEGE	2	0	2
119 WESTERN CAROLINA UNIVERSITY	2	0	2
120 APPALACHIAN STATE UNIVERSITY	2	0	2
TOTAL, 1ST 120 INSTS.	2,162	923	1,239

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TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
121 WORCESTER STATE COLLEGE	1	0	1
122 COLLEGE OF THE HOLY CROSS	1	1	0
123 UNIVERSITY OF SAN DIEGO	1	1	0
124 MIDWESTERN STATE UNIVERSITY	1	0	1
125 INCARNATE WORD COLLEGE	1	0	1
126 WESTERN NEW ENGLAND COL	1	0	1
127 SUNY COLLEGE AT CORTLAND	1	0	1
128 FURMAN UNIVERSITY	1	1	0
129 CORPUS CHRISTI STATE UNIVERSITY	1	0	1
130 NORTHERN MICHIGAN UNIVERSITY	1	0	1
TOTAL, 1ST 130 INSTS.	2,172	926	1,246
131 BEMIDJI STATE UNIVERSITY	1	1	0
132 COOPER UNION	1	1	0
133 SARAH LAWRENCE COLLEGE	1	1	0
134 MURRAY STATE UNIVERSITY	1	1	0
135 NIAGARA UNIVERSITY	1	0	1
136 MARIST COLLEGE	1	0	1
137 EDINBORO STATE COLLEGE	1	1	0
138 RIVIER COLLEGE	1	0	1
139 MISSISSIPPI UNIVERSITY FOR WOMEN	1	1	0
140 CENTRAL MISSOURI STATE UNIVERSITY	1	1	0
TOTAL, 1ST 140 INSTS.	2,182	933	1,249
141 EAST CENTRAL OKLAHOMA STATE UNIV	1	1	0
142 JAMES MADISON UNIVERSITY	1	0	1
143 SAMFORD UNIVERSITY	1	0	1
144 LORAS COLLEGE	1	0	1
145 CUNY LEHMAN COLLEGE	1	1	0
146 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	1	1	0
147 GODDARD COLLEGE	1	1	0
148 KEARNEY STATE COLLEGE	0	0	0
149 UNIVERSITY OF NEVADA AT LAS VEGAS	0	0	0
150 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	0	0	0
TOTAL, 1ST 150 INSTS.	2,189	937	1,252
151 SOUTHWEST MISSOURI STATE UNIVERSITY	0	0	0
152 SOUTHEAST MISSOURI STATE UNIVERSITY	0	0	0
153 ST CLOUD STATE UNIVERSITY	0	0	0
154 OCCIDENTAL COLLEGE	0	0	0
155 NORTHWEST MISSOURI STATE UNIVERSITY	0	0	0
156 DREW UNIVERSITY	0	0	0
157 WESTERN NEW MEXICO UNIVERSITY	0	0	0
158 NORTHEAST MISSOURI STATE UNIVERSITY	0	0	0
159 MISSISSIPPI COLLEGE	0	0	0
160 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	0	0	0
TOTAL, 1ST 160 INSTS.	2,189	937	1,252
161 MONTEREY INST OF INTL STUDIES	0	0	0
162 COLLEGE OF ST ROSE	0	0	0
163 MONMOUTH COLLEGE(NJ)	0	0	0
164 CENTRAL CONNECTICUT STATE COLLEGE	0	0	0
165 ST MARY'S COLLEGE	0	0	0
166 JACKSON STATE UNIVERSITY	0	0	0
167 WINONA STATE UNIVERSITY	0	0	0
168 PACIFIC STATES UNIVERSITY	0	0	0
169 MOORHEAD STATE UNIVERSITY	0	0	0
170 THE HARTFORD GRADUATE CENTER	0	0	0
TOTAL, 1ST 170 INSTS.	2,189	937	1,252
171 WILLIAM PATTERSON COLLEGE	0	0	0
172 KEAN COLLEGE OF NEW JERSEY	0	0	0
173 SOUTHEASTERN LOUISIANA UNIVERSITY	0	0	0
174 UNIVERSITY OF NEW HAVEN	0	0	0
175 WILLIAMS COLLEGE	0	0	0
176 WESTERN STATE COLLEGE OF COLORADO	0	0	0
177 CONNECTICUT COLLEGE	0	0	0
178 SUFFOLK UNIVERSITY	0	0	0
179 UNIV OF MASSACHUSETTS-BOSTON	0	0	0
180 NEW MEXICO HIGHLANDS UNIVERSITY	0	0	0
TOTAL, 1ST 180 INSTS.	2,189	937	1,252

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TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

- CONTINUED

	INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
181	JACKSONVILLE UNIVERSITY	0	0	0
182	SUNY COLLEGE AT POTSDAM	0	0	0
183	CUNY BROOKLYN COLLEGE	0	0	0
184	WAGNER COLLEGE	0	0	0
185	HOLY NAMES COLLEGE	0	0	0
186	NORTHROP UNIVERSITY	0	0	0
187	CAMPBELL UNIVERSITY	0	0	0
188	HARVEY MUDD COLLEGE	0	0	0
189	LOYOLA UNIVERSITY IN NEW ORLEANS	0	0	0
190	SALEM STATE COLLEGE	0	0	0
	TOTAL, 1ST 190 INSTS.	2,189	937	1,252
191	JOHN CARROLL UNIVERSITY	0	0	0
192	OBERLIN COLLEGE	0	0	0
193	QUINNIPIAC COLLEGE	0	0	0
194	YOUNGSTOWN STATE UNIVERSITY	0	0	0
195	FROSTBURG STATE COLLEGE	0	0	0
196	NICHOLLS STATE UNIVERSITY	0	0	0
197	FRAMINGHAM STATE COLLEGE	0	0	0
198	PACIFIC UNIVERSITY	0	0	0
199	SOUTHERN OREGON STATE COLLEGE	0	0	0
200	PACIFIC UNION COLLEGE	0	0	0
	TOTAL, 1ST 200 INSTS.	2,189	937	1,252
201	COPPIN STATE COLLEGE	0	0	0
202	ITHACA COLLEGE	0	0	0
203	STETSON UNIVERSITY	0	0	0
204	WIDENER UNIVERSITY	0	0	0
205	BLOOMSBURG STATE COLLEGE	0	0	0
206	CALIFORNIA STATE COLLEGE	0	0	0
207	WHITTIER COLLEGE	0	0	0
208	EAST STROUDSBURG STATE COLLEGE	0	0	0
209	PRATT INSTITUTE	0	0	0
210	KUTZTOWN STATE COLLEGE	0	0	0
	TOTAL, 1ST 210 INSTS.	2,189	937	1,252
211	MANSFIELD STATE COLLEGE	0	0	0
212	BOSTON STATE COLLEGE	0	0	0
213	WESTERN CONNECTICUT STATE COLLEGE	0	0	0
214	SLIPPERY ROCK STATE COLLEGE	0	0	0
215	CHAPMAN COLLEGE	0	0	0
216	ST JOSEPH'S UNIVERSITY	0	0	0
217	SWARTHMORE COLLEGE	0	0	0
218	UNIVERSITY OF SCRANTON	0	0	0
219	WILKES COLLEGE	0	0	0
220	RHODE ISLAND COLLEGE	0	0	0
	TOTAL, 1ST 220 INSTS.	2,189	937	1,252
221	MOREHEAD STATE UNIVERSITY	0	0	0
222	WASHBURN UNIV OF TOPEKA	0	0	0
223	SUNY COLLEGE AT FREDONIA	0	0	0
224	PITTSBURG STATE UNIVERSITY	0	0	0
225	FORT HAYS STATE UNIVERSITY	0	0	0
226	FISK UNIVERSITY	0	0	0
227	SUNY COLLEGE AT GENESEO	0	0	0
228	SONOMA STATE UNIVERSITY	0	0	0
229	UNIVERSITY OF TENNESSEE AT CHATTANOOGA	0	0	0
230	EMERSON COLLEGE	0	0	0
	TOTAL, 1ST 230 INSTS.	2,189	937	1,252
231	ANGELO STATE UNIVERSITY	0	0	0
232	SUNY COLLEGE AT ONEONTA	0	0	0
233	SOUTHEASTERN MASSACHUSETTS UNIVERSITY	0	0	0
234	PAN AMERICAN UNIVERSITY	0	0	0
235	VALPARAISO UNIVERSITY	0	0	0
236	ST MARY'S UNIVERSITY OF SAN ANTONIO	0	0	0
237	ROSE-HULMAN INSTITUTE OF TECHNOLOGY	0	0	0
238	INDIANA CENTRAL UNIVERSITY	0	0	0
239	TARLETON STATE UNIVERSITY	0	0	0
240	TEXAS SOUTHERN UNIVERSITY	0	0	0
	TOTAL, 1ST 240 INSTS.	2,189	937	1,252

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TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1981

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INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
241 CALIF STATE UNIVERSITY AT SACRAMENTO	0	0	0
242 UNIVERSITY OF EVANSVILLE	0	0	0
243 VASSAR COLLEGE	0	0	0
244 MIDDLEBURY COLLEGE	0	0	0
245 HUMBOLDT STATE UNIVERSITY	0	0	0
246 HOLLINS COLLEGE	0	0	0
247 LYNCHBURG COLLEGE	0	0	0
248 MOUNT HOLYOKE COLLEGE	0	0	0
249 RADFORD UNIVERSITY	0	0	0
250 DE PAUW UNIVERSITY	0	0	0
TOTAL, 1ST 250 INSTS.	2,189	937	1,252
251 BUTLER UNIVERSITY	0	0	0
252 CENTRAL WASHINGTON UNIVERSITY	0	0	0
253 ROOSEVELT UNIVERSITY	0	0	0
254 PACIFIC LUTHERAN UNIVERSITY	0	0	0
255 GALLAUDET COLLEGE	0	0	0
256 UNIVERSITY OF PUGET SOUND	0	0	0
257 WALLA WALLA COLLEGE	0	0	0
258 WESTERN WASHINGTON UNIVERSITY	0	0	0
259 WHITWORTH COLLEGE	0	0	0
260 MILWAUKEE SCHOOL OF ENGINEERING	0	0	0
TOTAL, 1ST 260 INSTS.	2,189	937	1,252
261 ADAMS STATE UNIVERSITY	0	0	0
262 UNIVERSITY OF WISCONSIN - STOUT	0	0	0
263 UNIVERSITY OF WISCONSIN - EAU CLAIRE	0	0	0
264 ANNA MARIA COLLEGE	0	0	0
265 UNIVERSITY OF REDLANDS	0	0	0
266 UNIVERSITY OF WISCONSIN - RIVER FALLS	0	0	0
267 UNIVERSITY OF WISCONSIN - STEVENS POINT	0	0	0
268 UNIVERSITY OF WISCONSIN - WHITEWATER	0	0	0
269 UNIVERSITY OF GUAM	0	0	0
270 FLORIDA A & M UNIVERSITY	0	0	0
TOTAL, 1ST 270 INSTS.	2,189	937	1,252
271 CALIF STATE UNIVERSITY AT CHICO	0	0	0
272 CUNY COLLEGE OF STATEN ISLAND ST GEORGE	0	0	0
273 CUNY BERNARD BARUCH COLLEGE	0	0	0
274 WORLD UNIVERSITY	0	0	0
275 CALIF STATE POLYTECHNIC UNIV AT POMONA	0	0	0
276 BRIDGEWATER STATE COLLEGE	0	0	0
277 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	0	0	0
278 BUCKNELL UNIVERSITY	0	0	0
279 EASTERN ILLINOIS UNIVERSITY	0	0	0
280 BRADLEY UNIVERSITY	0	0	0
TOTAL, 1ST 280 INSTS.	2,189	937	1,252
281 GEORGIA COLLEGE	0	0	0
282 WASHINGTON COLLEGE	0	0	0
283 INDIANA UNIVERSITY OF PENNSYLVANIA	0	0	0
284 HENDERSON STATE UNIVERSITY	0	0	0
285 CLARION STATE COLLEGE	0	0	0
286 SANGAMON STATE UNIVERSITY	0	0	0
287 VALDOSTA STATE COLLEGE	0	0	0
288 ARMSTRONG STATE COLLEGE	0	0	0
289 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	0	0	0
290 CHEYNEY STATE COLLEGE	0	0	0
TOTAL, 1ST 290 INSTS.	2,189	937	1,252
291 UNIVERSITY OF PORTLAND	0	0	0
292 NORWICH UNIVERSITY	0	0	0
293 MIDWEST COLLEGE OF ENGINEERING	0	0	0
294 GANNON COLLEGE	0	0	0
295 TROY STATE UNIVERSITY	0	0	0
296 ST JOSEPH COLLEGE	0	0	0
297 JACKSONVILLE STATE UNIVERSITY	0	0	0
298 UNIVERSITY OF MONTEVALLO	0	0	0
299 SUNY COLLEGE AT OSWEGO	0	0	0
300 UNIV OF ALASKA SOUTHEAST	0	0	0
TOTAL, 1ST 300 INSTS.	2,189	937	1,252
301 SUNY COLLEGE AT PLATTSBURGH	0	0	0
302 MONTCLAIR STATE COLLEGE	0	0	0
TOTAL, 1ST 302 INSTS.	2,189	937	1,252

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-10. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1981

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
TOTAL, ALL INSTITUTIONS	19,690	392,034	253,428	138,606
1 HARVARD UNIVERSITY	1,227	3,042	2,953	89
2 YALE UNIVERSITY	580	1,685	1,638	47
3 UNIVERSITY OF CALIF AT SAN FRANCISCO	529	857	839	18
4 STANFORD UNIVERSITY	508	3,811	3,341	470
5 UNIVERSITY OF CALIF AT LOS ANGELES	447	4,266	4,107	159
6 UNIVERSITY OF CALIF AT BERKELEY	436	5,598	5,598	0
7 UNIVERSITY OF WISCONSIN - MADISON	436	5,343	4,741	602
8 UNIVERSITY OF CALIF AT SAN DIEGO	426	1,159	1,092	67
9 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	412	3,950	3,739	211
10 UNIVERSITY OF WASHINGTON	402	4,241	3,314	927
TOTAL, 1ST 10 INSTS.	5,403	33,952	31,362	2,590
11 CORNELL UNIVERSITY	397	3,048	3,037	11
12 WASHINGTON UNIVERSITY	373	1,341	1,076	265
13 UNIVERSITY OF PENNSYLVANIA	366	2,619	1,972	647
14 UNIVERSITY OF MINNESOTA	359	5,209	4,360	849
15 JOHNS HOPKINS UNIVERSITY	358	1,498	1,390	108
16 COLUMBIA UNIV MAIN DIVISION	328	2,991	2,189	802
17 BAYLOR COLLEGE OF MEDICINE	310	127	127	0
18 UNIVERSITY OF COLORADO	276	3,517	2,605	912
19 UNIVERSITY OF ILLINOIS - URBANA	272	4,313	4,070	243
20 DUKE UNIVERSITY	265	931	875	56
TOTAL, 1ST 20 INSTS.	8,707	59,546	53,063	6,483
21 UNIVERSITY OF CHICAGO	228	1,427	1,401	26
22 YESHIVA UNIVERSITY	222	497	410	87
23 UNIVERSITY OF MICHIGAN	220	4,401	3,925	476
24 OHIO STATE UNIVERSITY	218	4,787	3,993	794
25 UNIVERSITY OF SOUTHERN CALIFORNIA	215	7,507	2,938	4,569
26 UNIV OF TEXAS AT AUSTIN	205	4,032	3,397	635
27 UNIV OF NORTH CAROLINA AT CHAPEL HILL	200	2,473	2,221	252
28 UNIVERSITY OF ARIZONA	197	3,169	2,423	746
29 NORTHWESTERN UNIVERSITY	197	1,536	1,407	129
30 VANDERBILT UNIVERSITY	192	666	603	63
TOTAL, 1ST 30 INSTS.	10,801	90,041	75,781	14,260
31 CASE WESTERN RESERVE UNIVERSITY	191	1,676	1,239	437
32 ROCKEFELLER UNIVERSITY	191	107	96	11
33 UNIVERSITY OF ROCHESTER	189	1,017	826	191
34 CALIFORNIA INSTITUTE OF TECHNOLOGY	188	897	897	0
35 UNIVERSITY OF CALIF AT DAVIS	185	2,890	2,746	144
36 UNIVERSITY OF IOWA	184	1,877	1,480	397
37 PURDUE UNIVERSITY	180	3,917	3,059	858
38 SUNY - STONY BROOK	178	2,413	1,732	681
39 NEW YORK UNIVERSITY	169	3,372	1,279	2,093
40 UNIVERSITY OF VIRGINIA	162	1,479	1,274	205
TOTAL, 1ST 40 INSTS.	12,618	109,686	90,409	19,277
41 INDIANA UNIVERSITY, ALL CAMPUSES	162	2,376	1,694	682
42 PRINCETON UNIVERSITY	160	1,099	1,099	0
43 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	151	240	215	25
44 UNIVERSITY OF UTAH	146	1,917	1,426	491
45 UNIVERSITY OF FLORIDA	146	2,603	2,290	313
46 MICHIGAN STATE UNIVERSITY	144	3,053	2,711	342
47 UNIVERSITY OF MARYLAND - COLLEGE PARK	140	2,867	1,638	1,229
48 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	124	1,241	936	305
49 UNIVERSITY OF KANSAS	117	2,212	1,960	252
50 SUNY - BUFFALO	117	2,089	1,394	695
TOTAL, 1ST 50 INSTS.	14,025	129,383	105,772	23,611
51 UNIVERSITY OF CONNECTICUT	114	2,257	1,823	434
52 UNIVERSITY OF CALIF AT IRVINE	111	1,145	1,032	113
53 RUTGERS THE STATE UNIVERSITY	108	4,247	1,740	2,507
54 TEMPLE UNIVERSITY	107	1,280	856	424
55 UNIVERSITY OF PITTSBURGH	107	4,558	2,429	2,129
56 CARNEGIE-MELLON UNIVERSITY	106	1,093	860	233
57 VIRGINIA COMMONWEALTH UNIVERSITY	104	1,355	875	480
58 UNIVERSITY OF GEORGIA	99	1,779	1,624	155
59 PENNSYLVANIA STATE UNIVERSITY	96	3,573	2,672	901
60 UNIV OF ILLINOIS MED CENTER - CHICAGO	94	738	439	299
TOTAL, 1ST 60 INSTS.	15,071	151,408	120,122	31,286

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TABLE E-10. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1981

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
61 COLORADO STATE UNIVERSITY	93	1,803	1,417	386
62 UNIVERSITY OF MASSACHUSETTS AT AMHERST	92	2,007	1,768	239
63 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	91	258	156	102
64 ADELPHI UNIVERSITY	89	751	268	483
65 LOUISIANA STATE UNIVERSITY SYSTEM	79	1,638	1,287	351
66 ARIZONA STATE UNIVERSITY	77	1,994	1,154	840
67 UNIVERSITY OF TENNESSEE AT KNOXVILLE	77	2,828	1,909	919
68 TUFTS UNIVERSITY	76	504	387	117
69 UNIVERSITY OF CALIF AT SANTA BARBARA	74	1,294	1,244	50
70 UNIVERSITY OF MIAMI	74	906	642	264
TOTAL, 1ST 70 INSTS.	15,893	165,391	130,354	35,037
71 GEORGETOWN UNIVERSITY	74	1,098	748	350
72 BROWN UNIVERSITY	74	689	618	71
73 UNIVERSITY OF KENTUCKY	72	1,648	1,199	449
74 LOMA LINDA UNIVERSITY	71	1,025	419	606
75 BRANDEIS UNIVERSITY	70	317	311	6
76 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	69	565	398	167
77 TEXAS A & M UNIVERSITY	67	3,365	2,759	606
78 OREGON STATE UNIVERSITY	67	1,652	1,510	142
79 RICE UNIVERSITY	66	586	544	42
80 CUNY GRADUATE SCHOOL AND UNIV CENTER	66	1,812	1,692	120
TOTAL, 1ST 80 INSTS.	16,589	178,148	140,552	37,596
81 UNIVERSITY OF CALIF AT RIVERSIDE	64	931	890	41
82 IOWA STATE UNIVERSITY OF SCI & TECH	64	2,432	1,950	482
83 WAYNE STATE UNIVERSITY	62	1,831	1,025	806
84 UNIVERSITY OF MISSOURI - COLUMBIA	61	1,954	1,530	424
85 UNIVERSITY OF OREGON	59	679	615	64
86 UNIV OF TEXAS MED BRANCH AT GALVESTON	59	138	129	9
87 UNIVERSITY OF HOUSTON	57	1,410	766	644
88 NORTH CAROLINA STATE UNIV AT RALEIGH	57	2,252	1,859	393
89 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	56	23	22	1
90 BOSTON UNIVERSITY	56	2,579	1,719	860
TOTAL, 1ST 90 INSTS.	17,184	192,377	151,057	41,320
91 CUNY MOUNT SINAI SCHOOL OF MEDICINE	55	0	0	0
92 UNIVERSITY OF NEBRASKA - LINCOLN	54	1,365	1,061	304
93 EMORY UNIVERSITY	53	497	335	162
94 FLORIDA STATE UNIVERSITY	52	1,516	1,191	325
95 UNIVERSITY OF MARYLAND - BALT PROF SCH	50	698	362	336
96 UNIVERSITY OF CINCINNATI	50	2,405	1,526	879
97 ALBANY MEDICAL COLLEGE	49	51	50	1
98 UNIV OF TEXAS CANCER CENTER	49	0	0	0
99 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	48	45	45	0
100 VIRGINIA POLYTECHNIC INST AND STATE UNIV	48	2,350	1,830	520
TOTAL, 1ST 100 INSTS.	17,692	201,304	157,457	43,847
101 RENSSELAER POLYTECHNIC INSTITUTE	46	1,643	1,221	422
102 KANSAS STATE UNIV OF AGR & APPLIED SCI	46	1,249	1,034	215
103 UNIVERSITY OF SOUTH CAROLINA	45	1,762	1,132	630
104 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	44	116	86	30
105 SYRACUSE UNIVERSITY	40	2,059	1,213	846
106 WASHINGTON STATE UNIVERSITY	39	1,454	1,212	242
107 GEORGIA INSTITUTE OF TECHNOLOGY	39	1,998	1,477	521
108 ST LOUIS UNIVERSITY	38	740	454	286
109 CUNY CITY COLLEGE	37	536	160	376
110 UTAH STATE UNIVERSITY	36	965	852	113
TOTAL, 1ST 110 INSTS.	18,102	213,826	166,298	47,528
111 UNIVERSITY OF OKLAHOMA - NORMAN	36	1,340	929	411
112 WEST VIRGINIA UNIVERSITY	34	2,142	1,120	1,022
113 UNIVERSITY OF NOTRE DAME	33	605	562	43
114 UNIVERSITY OF HAWAII AT MANOA	33	1,967	1,693	274
115 DARTMOUTH COLLEGE	33	227	219	8
116 UNIVERSITY OF CALIF AT SANTA CRUZ	33	363	363	0
117 UNIVERSITY OF NEW MEXICO	32	1,432	936	496
118 OKLAHOMA STATE UNIVERSITY	32	1,300	1,144	156
119 MEDICAL UNIVERSITY OF SOUTH CAROLINA	32	105	82	23
120 UNIV OF MED AND DENT OF NEW JERSEY	31	172	148	24
TOTAL, 1ST 120 INSTS.	18,431	223,479	173,494	49,985

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TABLE E-10. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1981

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
121 NORTHEASTERN UNIVERSITY	30	3,426	922	2,504
122 TULANE UNIVERSITY OF LOUISIANA	30	962	664	298
123 UNIVERSITY OF MISSISSIPPI	30	554	479	75
124 UNIVERSITY OF NEBRASKA MEDICAL CENTER	29	265	145	120
125 TEXAS TECH UNIVERSITY	27	998	838	160
126 UNIVERSITY OF LOUISVILLE	27	1,061	686	375
127 MEDICAL COLLEGE OF GEORGIA	26	143	97	46
128 RUSH UNIVERSITY	26	331	191	140
129 CLARKSON COLLEGE OF TECHNOLOGY	25	279	221	58
130 WAKE FOREST UNIVERSITY	24	174	117	57
TOTAL, 1ST 130 INSTS.	18,705	231,672	177,854	53,818
131 UNIVERSITY OF ARKANSAS	22	974	773	201
132 OREGON HEALTH SCIENCES UNIVERSITY	22	53	48	5
133 SUNY - UPSTATE MEDICAL CENTER	21	52	35	17
134 CATHOLIC UNIVERSITY OF AMERICA	21	1,719	736	983
135 MEDICAL COLLEGE OF WISCONSIN	21	66	59	7
136 DREXEL UNIVERSITY	21	1,051	369	682
137 POLYTECHNIC INSTITUTE OF NEW YORK	21	2,304	357	1,947
138 UNIVERSITY OF RHODE ISLAND	21	1,049	683	366
139 SUNY - COLL OF ENV SCIENCE AND FORESTRY	20	399	292	107
140 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	20	1,589	1,037	552
TOTAL, 1ST 140 INSTS.	18,915	240,928	182,243	58,685
141 SUNY - DOWNSTATE MEDICAL CENTER	20	80	78	2
142 MONTANA STATE UNIVERSITY	19	417	395	22
143 LOYOLA UNIVERSITY OF CHICAGO	19	851	456	395
144 UNIVERSITY OF WISCONSIN - MILWAUKEE	19	1,843	1,021	822
145 GEORGE WASHINGTON UNIVERSITY	19	3,790	664	3,126
146 HOWARD UNIVERSITY	17	1,212	978	234
147 UNIVERSITY OF NEVADA AT RENO	17	541	418	123
148 NEW YORK MEDICAL COLLEGE	16	169	50	119
149 BRIGHAM YOUNG UNIVERSITY	16	855	573	282
150 NEW MEXICO STATE UNIVERSITY	16	714	518	196
TOTAL, 1ST 150 INSTS.	19,093	251,400	187,394	64,006
151 THOMAS JEFFERSON UNIVERSITY	15	67	54	13
152 NORTH DAKOTA STATE UNIVERSITY	15	581	488	93
153 BOSTON COLLEGE	15	475	421	54
154 EAST CAROLINA UNIVERSITY	14	327	187	140
155 AMERICAN UNIVERSITY	14	1,833	611	1,222
156 UNIVERSITY OF OKLAHOMA HEALTH SCI CENTER	14	552	335	217
157 LAMAR UNIVERSITY	14	191	158	33
158 AUBURN UNIVERSITY	13	934	746	188
159 UNIV OF TEXAS AT DALLAS	13	772	424	348
160 UNIVERSITY OF IDAHO	13	755	474	281
TOTAL, 1ST 160 INSTS.	19,233	257,887	191,292	66,595
161 UNIVERSITY OF SOUTH ALABAMA	13	162	104	58
162 UNIVERSITY OF DENVER	13	942	745	197
163 UNIVERSITY OF MISSOURI - KANSAS CITY	13	650	221	429
164 SUNY - BINGHAMTON	13	1,078	619	459
165 UNIVERSITY OF AKRON	12	998	536	462
166 NORTH TEXAS STATE UNIVERSITY	12	732	540	192
167 THE MEDICAL COLLEGE OF PENNSYLVANIA	12	49	19	30
168 LEHIGH UNIVERSITY	12	791	475	316
169 MARQUETTE UNIVERSITY	12	525	319	206
170 UNIVERSITY OF WYOMING	11	730	665	65
TOTAL, 1ST 170 INSTS.	19,356	264,544	195,535	69,009
171 UNIVERSITY OF NORTH DAKOTA	10	332	270	62
172 CUNY QUEENS COLLEGE	10	313	126	187
173 UNIV OF TEXAS AT ARLINGTON	10	1,723	846	877
174 UNIVERSITY OF HEALTH SCIENCES	10	82	77	5
175 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	9	323	128	195
176 ILLINOIS INSTITUTE OF TECHNOLOGY	9	1,758	472	1,286
177 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	9	456	168	288
178 THE UNIVERSITY OF ALABAMA	9	618	523	95
179 GEORGIA STATE UNIVERSITY	9	681	392	289
180 UNIVERSITY OF SOUTH FLORIDA	8	887	452	435
TOTAL, 1ST 180 INSTS.	19,449	271,717	198,989	72,728

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TABLE E-10. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1981

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INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
181	UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	8	296	253	43
182	WOODS HOLE OCEANOGRAPHIC INSTITUTION	8	91	91	0
183	STEVENS INSTITUTE OF TECHNOLOGY	7	1,433	617	816
184	SOUTHERN METHODIST UNIVERSITY	7	857	257	600
185	MIAMI UNIVERSITY	7	532	435	97
186	NORTHERN ILLINOIS UNIVERSITY	6	923	540	383
187	SAN DIEGO STATE UNIVERSITY	6	1,812	1,069	743
188	OHIO UNIVERSITY	6	805	695	110
189	OREGON GRADUATE CENTER	6	58	43	15
190	ILLINOIS STATE UNIVERSITY	6	403	270	133
	TOTAL, 1ST 190 INSTS.	19,516	278,927	203,259	75,668
191	WESLEYAN UNIVERSITY	5	111	106	5
192	HAHNEMANN UNIVERSITY	5	233	229	4
193	FORDHAM UNIVERSITY	5	626	360	266
194	UNIVERSITY OF NEW HAMPSHIRE	5	506	394	112
195	CLEMSON UNIVERSITY	5	947	712	235
196	UNIVERSITY OF NEW ORLEANS	5	474	240	234
197	WRIGHT STATE UNIVERSITY	5	555	300	255
198	BAYLOR UNIVERSITY	5	199	173	26
199	COLLEGE OF WILLIAM AND MARY	5	333	255	78
200	UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	5	1,041	664	377
	TOTAL, 1ST 200 INSTS.	19,566	283,952	206,692	77,260
201	OLD DOMINION UNIVERSITY	4	902	442	460
202	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	4	21	9	12
203	WORCESTER POLYTECHNIC INSTITUTE	4	790	190	600
204	SAN JOSE STATE UNIVERSITY	4	2,048	783	1,265
205	NEW MEXICO INSTITUTE OF MINING AND TECH	4	150	150	0
206	UNIVERSITY OF MISSOURI - ROLLA	4	849	514	335
207	US NAVAL POSTGRADUATE SCHOOL	4	859	859	0
208	UNIVERSITY OF ALASKA AT FAIRBANKS	3	317	229	88
209	CLEVELAND STATE UNIVERSITY	3	854	233	621
210	MEHARRY MEDICAL COLLEGE	3	34	34	0
	TOTAL, 1ST 210 INSTS.	19,603	290,776	210,135	80,641
211	EAST TENNESSEE STATE UNIVERSITY	3	212	137	75
212	OAKLAND UNIVERSITY	3	315	132	183
213	KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	3	0	0	0
214	MISSISSIPPI STATE UNIVERSITY	3	809	632	177
215	OKLAHOMA COLL OF OSTEO MED & SURGERY	3	0	0	0
216	UNIVERSITY OF TEXAS AT SAN ANTONIO	3	271	51	220
217	UNIVERSITY OF SOUTHERN MISSISSIPPI	3	467	330	137
218	UNIVERSITY OF MISSOURI - ST LOUIS	3	281	83	198
219	UNIVERSITY OF MONTANA	3	388	351	37
220	UNIV OF TEXAS AT EL PASO	3	507	235	272
	TOTAL, 1ST 220 INSTS.	19,633	294,026	212,086	81,940
221	CUNY HUNTER COLLEGE	3	1,265	776	489
222	FLORIDA ATLANTIC UNIVERSITY	3	348	108	240
223	STEPHEN F. AUSTIN STATE UNIVERSITY	3	259	178	81
224	UNIVERSITY OF SOUTH DAKOTA	2	164	141	23
225	UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	2	190	91	99
226	JOHN CARROLL UNIVERSITY	2	35	18	17
227	INSTITUTE OF PAPER CHEMISTRY	2	101	101	0
228	BOWLING GREEN STATE UNIVERSITY	2	472	389	83
229	CREIGHTON UNIVERSITY	2	52	48	4
230	INDIANA STATE UNIVERSITY	2	265	185	80
	TOTAL, 1ST 230 INSTS.	19,656	297,177	214,121	83,056
231	ALABAMA A & M UNIVERSITY	2	189	141	48
232	SUNY COLLEGE AT BUFFALO	2	62	28	34
233	TRINITY UNIVERSITY	2	351	171	180
234	WESTERN MICHIGAN UNIVERSITY	2	1,365	601	764
235	MASSACHUSETTS COLLEGE OF PHARMACY	1	62	53	9
236	CLARK UNIVERSITY	1	190	181	9
237	UNIVERSITY OF MAINE AT ORONO	1	395	313	82
238	TEXAS WOMAN'S UNIVERSITY	1	1,660	638	1,022
239	MEMPHIS STATE UNIVERSITY	1	799	463	336
240	FISK UNIVERSITY	1	37	36	1
	TOTAL, 1ST 240 INSTS.	19,670	302,287	216,746	85,541

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TABLE E-10. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1981

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
241 NORTHERN ARIZONA UNIVERSITY	1	430	242	188
242 WESTERN ILLINOIS UNIVERSITY	1	258	202	56
243 MEDICAL COLLEGE OF OHIO AT TOLEDO	1	41	31	10
244 CUNY LEHMAN COLLEGE	1	42	33	9
245 UNIVERSITY OF TOLEDO	1	602	349	253
246 ORAL ROBERTS UNIVERSITY	1	28	21	7
247 SETON HALL UNIVERSITY	1	286	119	167
248 SOUTHWEST TEXAS STATE UNIVERSITY	1	361	239	122
249 NE OHIO UNIV COL OF MEDICINE	1	21	21	0
250 LONG ISLAND UNIVERSITY	1	2,130	343	1,787
TOTAL, 1ST 250 INSTS.	19,680	306,486	218,346	88,140
251 SAM HOUSTON STATE UNIVERSITY	1	278	142	136
252 SUNY COLLEGE AT PLATTSBURGH	1	44	36	8
253 ATLANTA UNIVERSITY	1	561	455	106
254 WILLIAM PATTERSON COLLEGE	1	222	83	139
255 EASTERN NEW MEXICO UNIVERSITY	1	235	97	138
256 SUNY STATE COLLEGE OF OPTOMETRY	1	6	3	3
257 SAN FRANCISCO STATE UNIVERSITY	1	1,258	544	714
258 WESTERN CAROLINA UNIVERSITY	1	125	75	50
259 CALIF STATE UNIV AT LONG BEACH	1	1,771	337	1,434
260 SOUTH DAKOTA STATE UNIVERSITY	1	315	221	94
TOTAL, 1ST 260 INSTS.	19,690	311,301	220,339	90,962
261 NORTHEAST MISSOURI STATE UNIVERSITY	0	63	42	21
262 SOUTHEAST MISSOURI STATE UNIVERSITY	0	22	11	11
263 NORTHWEST MISSOURI STATE UNIVERSITY	0	84	32	52
264 CENTRAL MISSOURI STATE UNIVERSITY	0	136	81	55
265 ANDREWS UNIVERSITY	0	102	34	68
266 KANSAS CITY COLL OF OSTEOPATHIC MEDICINE	0	0	0	0
267 SOUTHWEST MISSOURI STATE UNIVERSITY	0	84	30	54
268 MISSISSIPPI UNIVERSITY FOR WOMEN	0	22	12	10
269 WILLIAMS COLLEGE	0	23	23	, 0
270 CENTRAL MICHIGAN UNIVERSITY	0	497	285	212
TOTAL, 1ST 270 INSTS.	19,690	312,334	220,889	91,445
271 EASTERN MICHIGAN UNIVERSITY	0	492	202	290
272 VALDOSTA STATE COLLEGE	0	87	52	35
273 AMERICAN INTERNATIONAL COLLEGE	0	157	27	130
274 UNIVERSITY OF NEVADA AT LAS VEGAS	0	214	92	122
275 ARMSTRONG STATE COLLEGE	0	15	1	14
276 WASHINGTON COLLEGE	0	82	0	82
277 ANNA MARIA COLLEGE	0	230	8	222
278 DREW UNIVERSITY	0	24	5	19
279 MONMOUTH COLLEGE(NJ)	0	114	13	101
280 GEORGE WILLIAMS COLLEGE	0	477	217	260
TOTAL, 1ST 280 INSTS.	19,690	314,226	221,506	92,720
281 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	0	46	43	3
282 MISSISSIPPI COLLEGE	0	0	0	0
283 KEAN COLLEGE OF NEW JERSEY	0	112	10	102
284 GEORGIA SOUTHERN COLLEGE	0	73	57	16
285 ASSUMPTION COLLEGE	0	188	49	139
286 RIDER COLLEGE	0	227	2	225
287 ST MARY'S COLLEGE	0	77	58	19
288 WINONA STATE UNIVERSITY	0	4	0	4
289 KEARNEY STATE COLLEGE	0	12	10	2
290 NEW MEXICO HIGHLANDS UNIVERSITY	0	77	75	2
TOTAL, 1ST 290 INSTS.	19,690	315,042	221,810	93,232
291 LOYOLA COLLEGE	0	565	98	467
292 UNIVERSITY OF NEBRASKA - OMAHA	0	645	278	367
293 AUGUSTA COLLEGE	0	29	23	6
294 NOVA UNIVERSITY	0	805	490	315
295 ALFRED UNIVERSITY	0	76	67	9
296 CUNY BROOKLYN COLLEGE	0	236	18	218
297 JACKSONVILLE UNIVERSITY	0	29	0	29
298 WESTERN NEW ENGLAND COL	0	132	0	132
299 HOOD COLLEGE	0	417	31	386
300 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	0	509	76	433
TOTAL, 1ST 300 INSTS.	19,690	318,485	222,891	95,594

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TABLE E-10. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1981

- CONTINUED

INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
301	UNIV OF MASSACHUSETTS-BOSTON	0	42	18	24
302	RIVIER COLLEGE	0	38	0	38
303	COLLEGE OF ST ROSE	0	183	1	182
304	UNIVERSITY OF BALTIMORE	0	318	55	263
305	ST CLOUD STATE UNIVERSITY	0	27	8	19
306	FROSTBURG STATE COLLEGE	0	82	30	52
307	BEMIDJI STATE UNIVERSITY	0	16	9	7
308	MANKATO STATE UNIVERSITY	0	317	178	139
309	ITHACA COLLEGE	0	43	29	14
310	MONTCLAIR STATE COLLEGE	0	349	48	301
	TOTAL, 1ST 310 INSTS.	19,690	319,900	223,267	96,633
311	MARIST COLLEGE	0	55	25	30
312	JACKSON STATE UNIVERSITY	0	189	90	99
313	NEW JERSEY INSTITUTE OF TECHNOLOGY	0	830	137	693
314	TOWSON STATE UNIVERSITY	0	438	80	358
315	GEORGIA COLLEGE	0	152	7	145
316	BISCAYNE COLLEGE	0	242	105	137
317	PRATT INSTITUTE	0	63	15	48
318	BARRY COLLEGE	0	268	133	135
319	THE HARTFORD GRADUATE CENTER	0	723	35	688
320	ROCHESTER INSTITUTE OF TECHNOLOGY	0	645	51	594
	TOTAL, 1ST 320 INSTS.	19,690	323,505	223,945	99,560
321	STETSON UNIVERSITY	0	3	0	3
322	SARAH LAWRENCE COLLEGE	0	50	47	3
323	ST BONAVENTURE UNIVERSITY	0	23	18	5
324	ST JOHN'S UNIVERSITY	0	887	264	623
325	SUNY - ALBANY	0	756	436	320
326	COPPIN STATE COLLEGE	0	53	20	33
327	MORGAN STATE UNIVERSITY	0	61	31	30
328	IDAHO STATE UNIVERSITY	0	205	147	58
329	SUNY COLLEGE AT BROCKPORT	0	141	38	103
330	EASTERN ILLINOIS UNIVERSITY	0	176	124	52
	TOTAL, 1ST 330 INSTS.	19,690	325,860	225,070	100,790
331	TRENTON STATE COLLEGE	0	107	7	100
332	MICHIGAN TECHNOLOGICAL UNIVERSITY	0	283	271	12
333	UNIVERSITY OF DETROIT	0	390	150	240
334	SUNY COLLEGE AT NEW PALTZ	0	114	49	65
335	SUNY COLLEGE AT ONEONTA	0	6	3	3
336	SOUTHEASTERN MASSACHUSETTS UNIVERSITY	0	121	47	74
337	ROLLINS COLLEGE	0	62	26	36
338	SUNY COLLEGE AT POTSDAM	0	20	7	13
339	UNIVERSITY OF SOUTHWESTERN LOUISIANA	0	519	355	164
340	WESTERN NEW MEXICO UNIVERSITY	0	15	9	6
	TOTAL, 1ST 340 INSTS.	19,690	327,497	225,994	101,503
341	COLLEGE OF THE HOLY CROSS	0	4	4	0
342	UNIVERSITY OF BRIDGEPORT	0	406	90	316
343	VASSAR COLLEGE	0	2	0	2
344	WAGNER COLLEGE	0	158	11	147
345	TRINITY COLLEGE	0	35	0	35
346	NORTH CAROLINA A & T STATE UNIVERSITY	0	123	97	26
347	APPALACHIAN STATE UNIVERSITY	0	157	85	72
348	CAMPBELL UNIVERSITY	0	5	0	5
349	ST JOSEPH COLLEGE	0	54	0	54
350	NORTHEASTERN ILLINOIS UNIVERSITY	0	204	12	192
	TOTAL, 1ST 350 INSTS.	19,690	328,645	226,293	102,352
351	NORTH CAROLINA CENTRAL UNIVERSITY	0	93	46	47
352	SOUTHERN CONNECTICUT STATE COLLEGE	0	289	108	181
353	QUINNIPIAC COLLEGE	0	155	9	146
354	UNIV OF NORTH CAROLINA AT CHARLOTTE	0	143	49	94
355	UNIV OF NORTH CAROLINA AT GREENSBORO	0	504	227	277
356	UNIVERSITY OF NEW HAVEN	0	492	56	436
357	COLLEGE OF NEW ROCHELLE	0	164	17	147
358	AIR FORCE INSTITUTE OF TECHNOLOGY	0	388	388	0
359	WESTERN CONNECTICUT STATE COLLEGE	0	18	1	17
360	SMITH COLLEGE	0	191	189	2
	TOTAL, 1ST 360 INSTS.	19,690	331,082	227,383	103,699

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TABLE E-10. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1981

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
361 BRADLEY UNIVERSITY	0	87	27	60
362 MOORHEAD STATE UNIVERSITY	0	52	33	19
363 COOPER UNION	0	39	27	12
364 FLORIDA A & M UNIVERSITY	0	60	52	8
365 XAVIER UNIVERSITY	0	165	120	45
366 YOUNGSTOWN STATE UNIVERSITY	0	137	29	108
367 MOUNT HOLYOKE COLLEGE	0	16	12	4
368 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	0	63	17	46
369 CONNECTICUT COLLEGE	0	27	20	7
370 UNIVERSITY OF TULSA	0	254	120	134
TOTAL, 1ST 370 INSTS.	19,690	331,982	227,840	104,142
371 IONA COLLEGE	0	171	1	170
372 HOFSTRA UNIVERSITY	0	396	289	107
373 PACIFIC UNIVERSITY	0	4	4	0
374 PORTLAND STATE UNIVERSITY	0	699	403	296
375 SOUTHERN OREGON STATE COLLEGE	0	39	27	12
376 WESTERN STATE COLLEGE OF COLORADO	0	10	7	3
377 MANHATTAN COLLEGE	0	361	136	225
378 BRYN MAWR COLLEGE	0	190	91	99
379 BUCKNELL UNIVERSITY	0	17	13	4
380 WORCESTER STATE COLLEGE	0	147	0	147
TOTAL, 1ST 380 INSTS.	19,690	334,016	228,811	105,205
381 NEW SCHOOL FOR SOCIAL RESEARCH	0	1,653	657	996
382 DUQUESNE UNIVERSITY	0	263	110	153
383 UNIVERSITY OF TEXAS AT TYLER	0	139	38	101
384 SOUTHEASTERN LOUISIANA UNIVERSITY	0	15	11	4
385 WEST GEORGIA COLLEGE	0	81	59	22
386 SALEM STATE COLLEGE	0	4	0	4
387 NIAGARA UNIVERSITY	0	29	12	17
388 FLORIDA INSTITUTE OF TECHNOLOGY	0	2,733	612	2,121
389 BLOOMSBURG STATE COLLEGE	0	17	4	13
390 CALIFORNIA STATE COLLEGE	0	96	33	63
TOTAL, 1ST 390 INSTS.	19,690	339,046	230,347	108,699
391 CHEYNEY STATE COLLEGE	0	0	0	0
392 EAST STROUDSBURG STATE COLLEGE	0	24	6	18
393 EDINBORO STATE COLLEGE	0	149	59	90
394 KUTZTOWN STATE COLLEGE	0	49	3	46
395 MANSFIELD STATE COLLEGE	0	16	11	5
396 MILLERSVILLE STATE COLLEGE	0	127	27	100
397 SHIPPENSBURG STATE COLLEGE	0	158	28	130
398 FRAMINGHAM STATE COLLEGE	0	192	20	172
399 WEST CHESTER STATE COLLEGE	0	380	61	319
400 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	0	42	42	0
TOTAL, 1ST 400 INSTS.	19,690	340,183	230,604	109,579
401 GALLAUDET COLLEGE	0	14	14	0
402 BRIDGEWATER STATE COLLEGE	0	7	0	7
403 SWARTHMORE COLLEGE	0	1	1	0
404 COLORADO SCHOOL OF MINES	0	525	392	133
405 ADAMS STATE UNIVERSITY	0	39	17	22
406 UNIVERSITY OF SCRANTON	0	167	69	98
407 BOSTON STATE COLLEGE	0	39	8	31
408 WILKES COLLEGE	0	5	0	5
409 NORTHEAST LOUISIANA UNIVERSITY	0	115	98	17
410 WHITTIER COLLEGE	0	2	1	1
TOTAL, 1ST 410 INSTS.	19,690	341,097	231,204	109,893
411 PROVIDENCE COLLEGE	0	1	0	1
412 RHODE ISLAND COLLEGE	0	129	24	105
413 CHICAGO COLL OF OSTEO MEDICINE	0	4	4	0
414 DE PAUW UNIVERSITY	0	4	4	0
415 MCNEESE STATE UNIVERSITY	0	101	39	62
416 COLLEGE OF CHARLESTON	0	59	11	48
417 FURMAN UNIVERSITY	0	5	5	0
418 UNIVERSITY OF SANTA CLARA	0	957	15	942
419 WINTHROP COLLEGE	0	31	18	13
420 SOUTH DAKOTA SCHOOL OF MINES AND TECH	0	193	151	42
TOTAL, 1ST 420 INSTS.	19,690	342,581	231,475	111,106

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TABLE E-10. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1981

- CONTINUED

INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
421	SUNY COLLEGE AT CORTLAND	0	13	6	7
422	UNIVERSITY OF LOWELL	0	1,124	311	813
423	AUSTIN PEAY STATE UNIVERSITY	0	63	25	38
424	DE PAUL UNIVERSITY	0	1,087	469	618
425	NORTHERN MICHIGAN UNIVERSITY	0	142	43	99
426	EMERSON COLLEGE	0	28	27	1
427	SUFFOLK UNIVERSITY	0	203	25	178
428	MIDDLE TENNESSEE STATE UNIVERSITY	0	292	107	185
429	TENNESSEE STATE UNIVERSITY	0	198	55	143
430	TENNESSEE TECHNOLOGICAL UNIVERSITY	0	176	96	80
	TOTAL, 1ST 430 INSTS.	19,690	345,907	232,639	113,268
431	UNIVERSITY OF TENNESSEE AT CHATTANOOGA	0	192	72	120
432	UNIVERSITY OF SAN FRANCISCO	0	473	432	41
433	UNIVERSITY OF REDLANDS	0	41	24	17
434	ABILENE CHRISTIAN UNIVERSITY	0	36	20	16
435	ANGELO STATE UNIVERSITY	0	71	20	51
436	EAST TEXAS STATE UNIVERSITY	0	397	162	235
437	INCARNATE WORD COLLEGE	0	8	5	3
438	LOYOLA UNIVERSITY IN NEW ORLEANS	0	2	0	2
439	MIDWESTERN STATE UNIVERSITY	0	88	53	35
440	LOUISIANA TECH UNIVERSITY	0	154	125	29
	TOTAL, 1ST 440 INSTS.	19,690	347,369	233,552	113,817
441	PAN AMERICAN UNIVERSITY	0	30	10	20
442	GRAMBLING STATE UNIVERSITY	0	23	15	8
443	UNIVERSITY OF HARTFORD	0	241	92	149
444	NICHOLLS STATE UNIVERSITY	0	13	7	6
445	UNION COLLEGE(NY)	0	123	30	93
446	ST MARY'S UNIVERSITY OF SAN ANTONIO	0	241	82	159
447	UNIVERSITY OF DELAWARE	0	1,138	728	410
448	SUL ROSS STATE UNIVERSITY	0	60	41	19
449	PRAIRIE VIEW A & M UNIVERSITY	0	92	72	20
450	TARLETON STATE UNIVERSITY	0	67	55	12
	TOTAL, 1ST 450 INSTS.	19,690	349,397	234,684	114,713
451	PEPPERDINE UNIVERSITY	0	396	76	320
452	TEXAS CHRISTIAN UNIVERSITY	0	183	97	86
453	TEXAS A & I UNIVERSITY	0	192	157	35
454	TEXAS SOUTHERN UNIVERSITY	0	172	117	55
455	PACIFIC UNION COLLEGE	0	1	1	0
456	SUNY COLLEGE AT FREDONIA	0	35	19	16
457	SUNY COLLEGE AT GENESEO	0	74	54	20
458	PACIFIC STATES UNIVERSITY	0	28	22	6
459	WESTERN KENTUCKY UNIVERSITY	0	192	105	87
460	OCCIDENTAL COLLEGE	0	4	3	1
	TOTAL, 1ST 460 INSTS.	19,690	350,674	235,335	115,339
461	NORTHROP UNIVERSITY	0	40	24	16
462	MONTEREY INST OF INTL STUDIES	0	51	47	4
463	UNIVERSITY OF LA VERNE	0	175	47	128
464	SUNY COLLEGE AT OSWEGO	0	17	9	8
465	WEST TEXAS STATE UNIVERSITY	0	249	50	199
466	GOLDEN GATE UNIVERSITY	0	331	55	276
467	FULLER THEOLOGICAL SEMINARY	0	180	179	1
468	GODDARD COLLEGE	0	4	4	0
469	MIDDLEBURY COLLEGE	0	2	2	0
470	DOMINICAN COLLEGE OF SAN RAFAEL	0	42	20	22
	TOTAL, 1ST 470 INSTS.	19,690	351,765	235,772	115,993
471	HAMPTON INSTITUTE	0	73	44	29
472	HOLLINS COLLEGE	0	9	9	0
473	INSTITUTE OF TEXTILE TECHNOLOGY	0	17	17	0
474	LYNCHBURG COLLEGE	0	8	3	5
475	JAMES MADISON UNIVERSITY	0	154	81	73
476	CHICAGO STATE UNIVERSITY	0	52	3	49
477	RADFORD UNIVERSITY	0	116	65	51
478	HOLY NAMES COLLEGE	0	10	3	7
479	UNIVERSITY OF RICHMOND	0	38	17	21
480	HARVEY MUDD COLLEGE	0	7	7	0
	TOTAL, 1ST 480 INSTS.	19,690	352,249	236,021	116,228

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TABLE E-10. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1981

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
481 GEORGE MASON UNIVERSITY	0	528	125	403
482 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	0	276	149	127
483 VIRGINIA STATE UNIVERSITY	0	65	38	27
484 CENTRAL WASHINGTON UNIVERSITY	0	81	57	24
485 EASTERN WASHINGTON UNIVERSITY	0	260	182	78
486 PACIFIC LUTHERAN UNIVERSITY	0	111	47	64
487 SEATTLE UNIVERSITY	0	252	23	229
488 UNIVERSITY OF PUGET SOUND	0	17	17	0
489 CHAPMAN COLLEGE	0	161	12	149
490 WALLA WALLA COLLEGE	0	9	9	0
TOTAL, 1ST 490 INSTS.	19,690	354,009	236,680	117,329
491 US INTERNATIONAL UNIVERSITY	0	774	474	300
492 WESTERN WASHINGTON UNIVERSITY	0	220	107	113
493 WHITWORTH COLLEGE	0	61	61	0
494 MARSHALL UNIVERSITY	0	265	142	123
495 CALIF STATE COLLEGE OF STANISLAUS	0	177	75	102
496 MURRAY STATE UNIVERSITY	0	108	65	43
497 MILWAUKEE SCHOOL OF ENGINEERING	0	69	0	69
498 SONOMA STATE UNIVERSITY	0	91	23	68
499 MOREHEAD STATE UNIVERSITY	0	69	40	29
500 UNIVERSITY OF WISCONSIN - GREEN BAY	0	80	32	48
TOTAL, 1ST 500 INSTS.	19,690	355,923	237,699	118,224
TOTAL, ALL OTHER INSTS.	0	36,111	15,729	20,382

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

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INSTRUCTIONS FOR SURVEY OF GRADUATE SCIENCE STUDENTS AND POSTDOCTORATES, FALL 1981

General Definitions

A *graduate student* is defined as a student enrolled for credit in an advanced-degree program leading to either a master's or Ph.D. degree in fall 1981. M.D., D.V.M., or D.D.S. candidates, interns, and residents should *not* be reported *unless* they are concurrently working for a master's or Ph.D. in a science or engineering field or are enrolled in a joint M.D./Ph.D program. Individuals who already hold an M.D., D.V.M., or D.D.S., master's or Ph.D. degree but who are working on *another* master's or Ph.D. degree are to be counted as graduate students, either full or part time. *Do not* report such individuals as postdoctorates in item 8.

Graduate students performing thesis or dissertation research away from the campus at Government and contractor-owned facilities in the United States are to be included as long as they are enrolled for credit in an advanced-degree program. Students enrolled at a branch or extension center in a foreign country are to be *excluded*.

A graduate student, whether full- or part-time, should be reported in only one department. If any students are in interdisciplinary programs, please be sure that they are counted only once by their "home" department. If a graduate student is enrolled in an inter-institutional program, please report the student only if the degree will be granted by your institution. Please report in terms of headcounts, *not* in full-time-equivalent (FTE) terms.

Item Instructions and Definitions

Highest degree offered, item 4: Check the item which refers to the *highest* degree program offered by this science department in fall 1981. If your department does not offer a graduate degree, but is a department of clinical medicine with or without postdoctorates, check (3).

Full-time graduate students, item 5: A full-time graduate student is defined as a student enrolled for credit in an advanced-degree program (not a regular staff member or a postdoctorate) who is engaged full time in training activities in his/her field of science; these activities may embrace any appropriate combination of study, teaching, and research, depending on your *institution's own policy*. If your department has no full-time graduate students, write "None" in item 5 and move to item 6.

Mechanisms of support, item 5, lines (1)-(5): Report each full-time graduate student according to the *type of major support* received in the fall of 1981. Students who receive *fellowships* or *traineeships* should be reported on lines (1) and (2), respectively, if either of these mechanisms constitute the major source of his/her support. The Federal Interagency Committee on Education (FICE) differentiates between the two *fellowship and traineeship* stipends as follows: 1) A fellowship is an award made directly to or on behalf of a student selected in a national competition, to enable him to pursue post-baccalaureate training, and 2) a traineeship is an educational award to a student selected by his university. Except for the student selection process, the terms and conditions of the two types of awards are generally identical. A student receiving primary support from an assistantship should be classified as a research assistant on line (3) or as a teaching assistant on line (4), depending on how he/she spends the majority of his/her time, e.g., a graduate assistant devoting most of his/her time to teaching should be classified as a graduate teaching assistant. All other full-time graduate students should be reported on line (5).

Students receiving financial assistance, item 5, columns (A) thru (H): Report the number of full-time graduate students in the appropriate column according to the source of the largest portion of their support. In determining the source of major support, consider only tuition and other academic expenses. If a graduate student receives stipend support from more than one source, choose the *major* category of support.

Federal sources, columns (A) thru (E): Report the number of full-time graduate students in the appropriate column where they receive the largest portion of their support. Full-time graduate students receiving the largest portion of their support, from Federal Government *loans* should be reported as *self-supported*, column (I).

Department of Defense (DOD), column (A): Report full-time graduate students receiving support from the Department of the Army, Navy, or Air Force. Students receiving their *major* support from the Veterans Administration under the G.I. Bill should be reported under column (E), "Other Federal Sources"; if this form of support does not constitute his/her *major* source, the student should be counted in the appropriate column representing that source.

Department of Health and Human Services (HHS), columns (B) and (C): Report full-time graduate students receiving support from the institutes or divisions of the **National Institutes of Health (NIH)** under column (B); support from all other components of HHS should be reported under column (C), as indicated below:

National Institutes of Health, report in column (B):
- Division of Research Resources
- National Cancer Institute
- National Eye Institute
- National Heart, Lung, and Blood Institute
- National Institute on Aging
- National Institute of Allergy and Infectious Diseases
- National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases
- National Institute of Child Health and Human Development
- National Institute of Dental Research
- National Institute of Environmental Health Sciences
- National Institute of General Medical Sciences
- National Institute of Neurological and Communicative Disorders and Stroke
- National Library of Medicine

Other HHS, report in column (C):

Alcohol, Drug Abuse, and Mental Health Administration (including National Institute of Mental Health)
Center for Disease Control
Food and Drug Administration
Health Resources Administration
Health Services Administration
Office of Human Development

Other Federal Sources, column (E): Report the number of full-time graduate students receiving support from all other Federal agencies, including those supported by the Department of Education.

Non-Federal sources, columns (F) thru (H):

Institutional support, column (F): Report full-time graduate students receiving support from your own institution and State and local governments. Students supported by funds given to a university by the Federal Government, such as training grant funds, should be reported under the appropriate Federal agency and NOT reported as *institutional support*.

Foreign sources, column (G): Include support from any non-U.S. source.

Other U.S. sources, column (H): Include support from nonprofit institutions, private industry, and all other U.S. sources.

Self-supported students, column (I): Include full-time graduate students whose major source of support is derived from loans from any source and from personal or family financial contributions. Full-time graduate students receiving the largest portion of their support from Federal loans should be reported here. Note that these students should be included in the total, column (J).

Women, line (7): Report all women students by their source of major support. Please note that in each column, data on line (7) should not exceed the total on line (6).

Foreign students, line (8): A *foreign* full-time graduate student is defined as an individual who has not attained U.S. citizenship. Do not include native residents of a U.S. possession, such as American Samoa. Applicants for U.S. citizenship are to be considered as *foreign* until the date their citizenship becomes effective.

First-year students, lines (9) and (10): A first-year student is defined as one who will have completed *less than a full year* of graduate study as of the beginning of the fall term in 1981 *in the program in which he/she is enrolled for a degree*. All other graduate students should be considered beyond their first year.

Part-time graduate students, item 6: A part-time graduate student is defined as a student who is enrolled in an advanced-degree program who is NOT pursuing graduate work full time as defined in item 5. Report the *total* number of part-time graduate students on line (1); if a department has no part-time graduate students, enter "None" and move to item 7.

Racial/ethnic background, item 7: This item was designated "optional" on the fall 1979 form and is being repeated in fall 1981 because responses were sufficient to indicate the general availability of such data at the department level. Racial/ethnic designations as used in this survey do not denote scientific definitions of anthropological origins; a graduate student may thus be included in the group to which he/she appears to belong, identifies with, or is regarded in the community as belonging. However, no person should be counted in more than one racial/ethnic group.

On line (1) report the total number of full-time graduate students under the appropriate racial/ethnic category. Item 7, line (1), column (G), should equal the full-time total reported in item 5, line (6), column (J). Similarly, the total number of part-time graduate students should be reported on line (2). Item 7, line (2), column (G), should equal the part-time total reported in item 6, line (1).

The following racial/ethnic designations are those defined by the Office of Civil Rights:

U.S. CITIZENS: columns (A) thru (E):

Black, non-Hispanic, column (A): Report persons having origins in any of the black racial groups (except those of Hispanic origin).

American Indian or Alaskan Native, column (B): Report persons having origins in any of the original peoples of North America.

Asian or Pacific Islander, column (C): Report persons having origins in any of the original peoples of the Far East, Southeast Asia, or the Pacific Islands. These areas include China, Japan, Korea, the Philippine Islands, and Samoa.

Hispanic, column (D): Report persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

White, non-Hispanic, column (E): Report persons having origins in any of the original peoples of Europe, North Africa, the Middle East or the Indian subcontinent, except those of Hispanic origin.

FOREIGN, OTHER AND UNKNOWN, column (F): Please report all students with foreign citizenship in column (F). In addition, for those few departments whose records may not be complete as to the racial/ethnic origin of some of their graduate students, please also report in column (F) those students whose origins are not listed in item 7, as well as those whose origins are unknown.

Postdoctorates and nonfaculty doctoral research staff, item 8: Include as **postdoctorates** those individuals with science or engineering Ph.D.'s, M.D.'s, D.D.S.'s, or D.V.M.'s (including foreign degrees that are equivalent to U.S. doctorates) who devote *their primary effort to research* activities or study in the department under temporary appointments carrying no academic rank. Such appointments are generally for a *specific time period*. They may contribute to the academic program through seminars, lectures, or working with graduate students. Their postdoctoral activities provide additional training for them. **Exclude** clinical fellows and those with appointments in residency training programs in medical and health professions, unless *research training* under the supervision of a *senior mentor* is the *primary purpose* of the appointment. On line (1), under columns (A) and (B), enter the number of fellows and trainees receiving support under Federal fellowships and/or training grants. Under column (C) enter the number of postdoctorates who are receiving federally supported research grants. Those remaining postdoctoral appointees receiving non-Government support should be entered under column (D). Of the *total* in column (E), enter in column (F) the number of postdoctorates with foreign citizenship.

Under **other nonfaculty doctoral research staff,** column (G), report all doctoral scientists and engineers who are principally involved in research activities but who are considered *neither* postdoctoral appointees nor members of the *regular* faculty. In column (H), report the total of columns (E) and (G). On line (2), report the number of women in each category; please note that in each column, data on line (2) should not exceed the total on line (1).

NSF Form 812, Dec. 81

NATIONAL SCIENCE FOUNDATION and NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE SCIENCE STUDENTS AND POSTDOCTORATES, FALL 1981

Form Approved
FEDAC No R93
App Exp 12/31/82

DEPARTMENTAL DATA SHEET

(NOTE: BEFORE FILLING OUT PLEASE READ THE ATTACHED INSTRUCTIONS.)

1. Name and address of institution: _____

2. Science or engineering department (or unit) covered by this data sheet: _____

3. Person in department (or unit) preparing this form:

Name: _____

Title: _____ Phone: ( )

4. Highest degree offered by department in fall 1981 (CHECK ONE ONLY) Master's _____(1) Doctorate _____(2) No graduate degree offered _____(3)

Institution and department code

(Leave blank)

NOTE: IF YOUR DEPARTMENT DOES NOT ENROLL GRADUATE STUDENTS, PLEASE MOVE TO ITEM 8 BELOW.

5. Number of FULL-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1981		STUDENTS RECEIVING FINANCIAL ASSISTANCE								SELF-SUPPORTED STUDENTS (Including loans and family sources) (I)	TOTAL FOR ALL SOURCES (Sum of (A) thru (I)) (J)
		FEDERAL SOURCES (excluding loans)					NON-FEDERAL SOURCES				
MECHANISMS OF SUPPORT		Department of Defense (A)	HHS: National Institutes of Health (B)	HHS: Other HHS (C)	National Science Foundation (D)	Other Federal sources (E)	Institutional support 1/ (F)	Foreign sources (G)	Other U.S. sources 2/ (H)		
Graduate Fellowships	(1)										
Graduate Traineeships	(2)										
Graduate Research Assistantships	(3)										
Graduate Teaching Assistantships	(4)										
Other Types of Support	(5)										
FULL-TIME TOTAL	(6)										
For each total on line (6) how many are WOMEN?	(7)										

FOREIGN STUDENTS	(8)	Of the full-time graduate students on line (6), column (J), how many are FOREIGN students?	
FIRST-YEAR STUDENTS	(9)	Of the full-time graduate students on line (6), column (J), how many are FIRST-YEAR students?	
FIRST-YEAR WOMEN STUDENTS	(10)	Of the full-time FIRST-YEAR graduate students on line (9), how many are WOMEN?	

1/ Include support from this university and State and local governments.

2/ Include support from nonprofit institutions, industry, and all other U.S. sources.

6 NUMBER OF PART-TIME GRADUATE STUDENTS, FALL 1981		
PART-TIME TOTAL	(1)	
Of the part-time total on line (1), how many are WOMEN?	(2)	

Check List

- ☐ 1. Do all entries reflect headcounts and **NOT** FTE's?
- ☐ 2. Do the data in items 5, 7, and 8 add to totals?
- ☐ 3. Have you **included** all self-supported full-time students in item 5, column I? Note that self-supported students should also be included in the total (column J).
- ☐ 4. Have you **excluded** M.D., D.D.S., and D.V.M. candidates, interns, and residents (except those enrolled in joint programs with the Ph.D.)?
- ☐ 5. Does item 5, line 6, column J equal item 7, line 1, column G?
- ☐ 6. Does item 6, line 1 equal item 7, line 2, column G?
- ☐ 7. Is item 7, line 1, column F, equal to or greater than item 5, line 8?

7. RACIAL/ ETHNIC BACKGROUND	Of the graduate student totals in items 5 and 6, how many belong to the following racial/ethnic categories?		U.S. CITIZENS ONLY: Black non-Hispanic (A)	Amer. Indian/ Alaskan Native (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	FOREIGN, Other or Unknown (F)	TOTAL (Sum of A thru F) (G)
	Full time (column G should equal item 5, line 6, col. J)	(1)							
	Part time (column G should equal item 6, line 1)	(2)							

8 Number of POSTDOCTORATES and NON-FACULTY DOCTORAL RESEARCH STAFF (Include those affiliated with this department as well as those employed in associated academic research units. Exclude clinical fellows and residents not involved in research.)		POSTDOCTORATES: SOURCE OF SUPPORT: Federal: Fellowships (A)	Traineeships (B)	Research Grants (C)	Non-Federal (D)	TOTAL for all sources A thru D (E)	Of the total in E, how many are FOREIGN? (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (Sum of E and G) (H)
TOTAL	(1)								
Of the total on line (1), how many are WOMEN?	(2)								

Please provide any comments which might explain variances from prior year's data:

Approximately how many personhours were required to complete this form? ☐

Item 5: _____

Item 6: _____

Item 7: Are these data available at the department level? _____

NOTE: This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information you provide will be used for statistical purposes only. Your response is entirely voluntary and your failure to provide some or all of the information will in no way adversely affect your institution.

Please return this form to your survey coordinator.

NSF FORM 811
JANUARY 1982

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE SCIENCE STUDENTS AND POSTDOCTORATES, FALL 1981

FORM APPROVED
FEDAC NO. R93
APP. EXP. 12/31/82

INSTRUCTIONS FOR SURVEY COORDINATOR

INSTITUTION: 001002-0-0 ALABAMA A & M UNIVERSITY

1. Please review the list of departments and programs printed on the following pages for accuracy and completeness. Please add any newly formed science or engineering programs in the spaces provided at the end of the departmental list and note any name changes or reorganizations where they occur.

2. Please cross out any discontinued or non-science programs on the departmental list. Programs which do not have graduate students or postdoctorates in fall 1981 but may have them in the future should NOT be crossed out; a check in column (6) of the departmental list can be used in place of a Form 812 for such programs.

3. A list of all relevant fields of science is provided on the last page of this form, accompanied by a 3-digit discipline code. Please review the first 3 digits of the codes in column (2) of the departmental list to verify the discipline to which each department has been assigned. If you do not agree with this code, note the discipline code to which your department most closely corresponds.

4. IN MEDICAL SCHOOLS ONLY, departments or programs followed by a single asterisk (*) include the indented sections or specialties listed beneath them. These sections or specialties may be without organizational autonomy; however, separate data are requested because of special NIH interest in these areas. Please be sure that no duplicate data are reported for the sections/specialties and their parent programs.

5. Please distribute the enclosed Forms 812 to all listed and newly formed departments or programs if data cannot be obtained from your centralized files. Definitions for all data items requested are provided on the Forms 812.

6. Please review the Forms 812 for completeness and reporting consistency and verify or supply the highest degree program offered by each department. Please check this year's data against the previous year's data shown on the departmental list and indicate the validity of large year-to-year shifts in the "Notes and Comments" section below or on the individual Forms 812.

7. Please return one copy of Form 811 (this form) along with one copy of each of the completed Forms 812 by FEBRUARY 12, 1982. Please use the franked envelope provided and return to:

SRG Data Receipt
NSF Surveys
Abt Associates Inc.
55 Wheeler Street
Cambridge, Mass. 02138

8. Care should be taken to submit as complete and accurate a report as possible so that follow-up procedures with your institution can be reduced to a minimum and more timely statistics can be made available. If there are any questions concerning your response, please call Diane Stoner, Survey Director, at (617) 492-7100. Thank you.

SURVEY COORDINATOR:
NAME: BESSIE W JONES
TITLE: DEAN, SCHOOL OF ARTS AND SCIENCES
ADDRESS: ALABAMA A & M UNIVERSITY
NORMAL, ALABAMA 35762

TELEPHONE: 205 859-7374

SIGNATURE OF SURVEY COORDINATOR

DATE COMPLETED

NOTES AND COMMENTS: _____

NSF FORM 811
JANUARY 1982

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE SCIENCE STUDENTS AND POSTDOCTORATES, FALL 1981

FORM APPROVED
FEDAC NO. R93
APP. EXP. 12/31/82

LIST OF DEPARTMENTS AND PROGRAMS

INSTITUTION: 001002-0-0 ALABAMA A & M UNIVERSITY

1980 RESPONSE CODE**	DEPARTMENT CODE ***	SCIENCE OR ENGINEERING DEPARTMENTS	DEPARTMENTAL DEGREE LEVEL	REPORTED FOR FALL 1980: FULL TIME	PART TIME	POST-DOCS.	CHECK HERE IF NO STUDENTS OR POSTDOCTORATES
(1)	(2)	(3)	(4)		(5)		(6)
1	30401-8	NATURAL RESOURCES & ENVIR STUDIES	MASTER'S	17	0	2	____
1	40101-3	COMPUTER AND INFORMATION SCIENCE	MASTER'S	61	15	0	____
1	60301-5	BIOLOGY	MASTER'S	19	30	0	____
1	61201-4	FOOD SCIENCE & ANIMAL INDUSTRIES	MASTER'S	26	1	0	____
1	91001-5	COMMUNITY PLANNING	MASTER'S	30	8	0	____

ADDITIONAL DEPARTMENTS OR ORGANIZED RESEARCH UNITS FOR FALL 1981:
(PLEASE FILL IN COLUMNS 3, 4, AND, IF APPLICABLE, COLUMN 6)

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** 1980 RESPONSE CODE MEANINGS

1 - RESPONDED

*** THE FIRST THREE DIGITS OF THE DEPARTMENT CODE ARE A FIELD OF SCIENCE CODE; A LIST OF FIELD OF SCIENCE CODES IS PROVIDED ON THE LAST PAGE OF THIS FORM.

NOTE: This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information you provide will be used for statistical purposes only. Your response is entirely voluntary and your failure to provide some or all of the information will in no way adversely affect your institution.

NSF FORM 811
JANUARY 1982

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE SCIENCE STUDENTS AND POSTDOCTORATES, FALL 1981

FORM APPROVED
FEDAC NO. R03
APP. EXP. 12/31/82

FIELDS OF SCIENCE

ENGINEERING:
- Aeronautical (101)
- Agricultural (102)
- Architectural (114)
- Biomedical (103)
- Chemical (104)
- Civil (105)
- Electrical (106)
- Engineering science (107)
- Industrial (108)
- Mechanical (109)
- Metallurgical and materials (110)
- Mining (111)
- Nuclear (112)
- Petroleum (113)
- Other engineering (114)

PHYSICAL SCIENCES:
- Astronomy (201)
- Chemistry (202)
- Physics (203)
- Other physical sciences (204)

ENVIRONMENTAL SCIENCES:
- Atmospheric sciences (301)
- Geosciences (302)
- Oceanography (303)
- Other environmental sciences (304)

MATHEMATICAL AND COMPUTER SCIENCES:
- Computer science (401)
- Mathematics and applied mathematics (402)
- Statistics (403)

LIFE SCIENCES:
- Agricultural sciences (501)
- Biological sciences
  - Anatomy (501)
  - Biochemistry (602)
  - Biology (603)
  - Biometry and epidemiology (604)
  - Biophysics (605)
  - Botany (606)
  - Cell biology (607)
  - Ecology (608)
  - Entomology and parasitology (609)
  - Genetics (610)
  - Microbiology (611)
  - Nutrition (612)
  - Pathology (613)
  - Pharmacology (614)
  - Physiology (615)
  - Zoology (616)
  - Other biosciences (617)

MEDICAL SCIENCES:
- Anesthesiology (701)
- Cardiology (702)
- Clinical medicine (717)
- Clinical pharmacology (703)
- Dental sciences (718)
- Endocrinology (704)
- Gastroenterology (705)
- Hematology (706)
- Neurology (707)
- Nursing (719)
- Obstetrics and gynecology (708)
- Ophthalmology (709)
- Otorhinolaryngology (710)
- Pediatrics (711)
- Pharmaceutical sciences (720)
- Preventive medicine, community, and public health (712)
- Psychiatry (713)
- Pulmonary disease (714)
- Radiology (715)
- Speech pathology and audiology (723)
- Surgery (716)
- Veterinary sciences (721)
- Other health related sciences (722)

PSYCHOLOGY:
- Clinical psychology (801)
- Experimental psychology (801)
- Human development (801)
- Physiological psychology (801)
- Social psychology (801)
- Other psychology (801)

SOCIAL SCIENCES:
- Agricultural economics (901)
- Anthropology (902)
- Economics (except agricultural) (903)
- Geography (904)
- History of science and philosophy of science (905)
- Linguistics (906)
- Political science (907)
- Public administration (907)
- Social work (910)
- Sociology (908)
- Urban planning (910)
- Other social sciences (910)

PLEASE EXCLUDE FROM YOUR RESPONSE ALL GRADUATE DEPARTMENTS IN THE FIELDS OF EDUCATION, LAW, HUMANITIES, MUSIC, THE ARTS, PHYSICAL EDUCATION, LIBRARY SCIENCES, AND ALL OTHER NONSCIENCE FIELDS.

TABLE IV-A-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL GRADUATE INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 9917

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
MECHANISMS OF SUPPORT											
GRADUATE FELLOWSHIPS	(1)	186	727	304	1.262	1.746	9.620	3.665	3.208		20.718
GRADUATE TRAINEESHIPS	(2)	81	4.855	5.836	145	2.098	3.773	274	867		17.929
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	3.280	5.440	609	7.586	12.233	17.675	613	5.738		53.174
GRADUATE TEACHING ASSISTANTSHIPS	(4)		74	42	61	464	54.940		418		55.999
OTHER TYPES OF SUPPORT	(5)	2.110	231	231	100	2.372	8.197	4.328	3.946	84.091	105.608
FULL-TIME TOTAL	(6)	5.657	11.327	7.022	9.154	18.913	94.205	8.880	14.179	84.091	253.428
FULL-TIME WOMEN	(7)	487	4.206	5.118	1.672	5.380	30.424	1.300	3.747	35.872	88.206
FULL-TIME FOREIGN STUDENTS	(8)										55.003
FULL-TIME FIRST-YEAR STUDENTS	(9)										85.202
FULL-TIME FIRST-YEAR WOMEN	(10)										33.801

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	138.606
PART-TIME WOMEN	(2)	54.255

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	6.288	515	4.900	4.556	140.499	96.670	253.428
PART-TIME STUDENTS	4.744	231	2.846	2.757	77.111	50.917	138.606

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	2.205	2.632	9.766	5.087	19.690	7.312	3.560	23.250
WOMEN	(2)	529	725	1.771	1.075	4.100	982	749	4.849

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-2. SUMMARY OF RESPONSES FROM ALL ENGINEERING DEPARTMENTS AT ALL GRADUATE INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 1195

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
MECHANISMS OF SUPPORT											
GRADUATE FELLOWSHIPS	(1)	71	7	25	155	364	1.425	830	1.233		4.110
GRADUATE TRAINEESHIPS	(2)	31	129	69	11	123	407	42	188		1.000
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	1.909	275	43	2.131	4.214	3.403	124	2.464		14.563
GRADUATE TEACHING ASSISTANTSHIPS	(4)		5	0	30	67	8.202		112		8.416
OTHER TYPES OF SUPPORT	(5)	1.088	15	7	23	302	1.147	1.236	823	13.931	18.572
FULL-TIME TOTAL	(6)	3.099	431	144	2.350	5.070	14.584	2.232	4.820	13.931	46.661
FULL-TIME WOMEN	(7)	135	63	48	181	477	1.544	115	511	1.805	4.879
FULL-TIME FOREIGN STUDENTS	(8)										19.886
FULL-TIME FIRST-YEAR STUDENTS	(9)										17.057
FULL-TIME FIRST-YEAR WOMEN	(10)										2.114

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	36.316
PART-TIME WOMEN	(2)	3.583

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	431	67	1.108	478	18.404	26.173	46.661
PART-TIME STUDENTS	546	45	1.117	475	20.302	13.831	36.316

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	26	49	673	284	1.032	699	509	1.541
WOMEN	(2)	1	4	52	23	80	42	33	113

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-3. SUMMARY OF RESPONSES FROM ALL PHYSICAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 677

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	16	21	2	227	97	892	200	396		1,851
GRADUATE TRAINEESHIPS	(2)	0	110	0	29	30	263	15	58		505
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	651	1,299	101	2,768	2,428	793	28	509		8,577
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	46	10,170		28		10,250
OTHER TYPES OF SUPPORT	(5)	129	2	4	4	27	223	130	96	1,556	2,171
FULL-TIME TOTAL	(6)	796	1,432	107	3,034	2,628	12,341	373	1,087	1,556	23,354
FULL-TIME WOMEN	(7)	73	315	19	421	340	2,346	51	193	278	4,036
FULL-TIME FOREIGN STUDENTS	(8)										6,249
FULL-TIME FIRST-YEAR STUDENTS	(9)										6,123
FULL-TIME FIRST-YEAR WOMEN	(10)										1,281

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	3,997
PART-TIME WOMEN	(2)	992

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	325	15	499	326	13,399	8,790	23,354
PART-TIME STUDENTS	107	4	138	49	2,300	1,399	3,997

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES							
		SOURCE OF SUPPORT							
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL	TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	193	37	3,571	666	4,467	2,361	620	5,087
WOMEN	(2)	25	5	382	64	476	178	85	561

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-4. SUMMARY OF RESPONSES FROM ALL ENVIRONMENTAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 339

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	0	1	12	71	147	332	98	161		822
GRADUATE TRAINEESHIPS	(2)	3	0	10	11	47	107	34	22		234
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	183	18	16	1,113	1,041	676	19	366		3,432
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	3	12	2,563		29		2,607
OTHER TYPES OF SUPPORT	(5)	118	1	0	6	96	327	220	193	2,824	3,785
FULL-TIME TOTAL	(6)	304	20	38	1,204	1,343	4,005	371	771	2,824	10,880
FULL-TIME WOMEN	(7)	45	7	15	285	316	1,038	37	182	662	2,587
FULL-TIME FOREIGN STUDENTS	(8)										1,496
FULL-TIME FIRST-YEAR STUDENTS	(9)										3,424
FULL-TIME FIRST-YEAR WOMEN	(10)										932

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	3,219
PART-TIME WOMEN	(2)	845

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	72	11	92	134	6,961	3,610	10,880
PART-TIME STUDENTS	30	5	25	23	2,040	1,096	3,219

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES							
		SOURCE OF SUPPORT							
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL	TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	17	0	273	56	346	124	142	488
WOMEN	(2)	2	0	24	8	34	9	12	46

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-5. SUMMARY OF RESPONSES FROM ALL MATH/COMPUTER SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 616

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	9	0	1	101	32	446	314	156		1.059
GRADUATE TRAINEESHIPS	(2)	0	11	4	10	3	174	6	26		234
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	360	48	8	483	149	646	0	147		1.841
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	3	41	7.438		40		7.522
OTHER TYPES OF SUPPORT	(5)	363	9	0	9	152	379	250	266	5.642	7.070
FULL-TIME TOTAL	(6)	732	68	13	606	377	9.083	570	635	5.642	17.726
FULL-TIME WOMEN	(7)	54	6	6	92	83	2.305	91	126	1.551	4.314
FULL-TIME FOREIGN STUDENTS	(8)										6.215
FULL-TIME FIRST-YEAR STUDENTS	(9)										6.372
FULL-TIME FIRST-YEAR WOMEN	(10)										1.809

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	14.536
PART-TIME WOMEN	(2)	4.358

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	231	8	508	215	8.182	8.582	17.726
PART-TIME STUDENTS	317	4	510	148	7.061	6.496	14.536

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	25	4	55	64	148	78	169	317
WOMEN	(2)	7	1	5	6	19	6	6	25

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-6. SUMMARY OF RESPONSES FROM ALL LIFE SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 4988

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	42	550	84	393	315	2.421	968	608		5.381
GRADUATE TRAINEESHIPS	(2)	25	3.770	4.671	57	1.404	1.261	131	221		11.540
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	75	3.351	196	747	3.208	6.695	392	1.741		16.405
GRADUATE TEACHING ASSISTANTSHIPS	(4)		63	39	12	169	12.081		114		12.478
OTHER TYPES OF SUPPORT	(5)	174	175	174	41	754	2.169	1.273	840	21.132	26.732
FULL-TIME TOTAL	(6)	316	7.909	5.164	1.250	5.850	24.627	2.764	3.524	21.132	72.536
FULL-TIME WOMEN	(7)	99	3.005	4.035	395	2.667	10.038	448	1.247	11.787	33.721
FULL-TIME FOREIGN STUDENTS	(8)										9.428
FULL-TIME FIRST-YEAR STUDENTS	(9)										24.035
FULL-TIME FIRST-YEAR WOMEN	(10)										13.193

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	30.945
PART-TIME WOMEN	(2)	20.307

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	1.498	130	1.383	1.030	47.170	21.325	72.536
PART-TIME STUDENTS	1.021	46	440	430	19.505	9.503	30.945

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	1.794	2.334	4.999	3.764	12.891	3.873	1.739	14.630
WOMEN	(2)	445	626	1.235	895	3.201	708	514	3.715

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-7. SUMMARY OF RESPONSES FROM ALL PSYCHOLOGY DEPARTMENTS AT ALL GRADUATE INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 514

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	18	66	66	103	72	848	42	127		1.342
GRADUATE TRAINEESHIPS	(2)	14	527	498	3	131	510	6	233		1.922
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	88	317	169	135	320	1.667	4	183		2.883
GRADUATE TEACHING ASSISTANTSHIPS	(4)		5	1	1	58	4.898		32		4.995
OTHER TYPES OF SUPPORT	(5)	24	10	3	4	417	1.500	40	845	12.712	15.555
FULL-TIME TOTAL	(6)	144	925	737	246	998	9.423	92	1.420	12.712	26.697
FULL-TIME WOMEN	(7)	44	491	410	121	473	4.984	53	682	7.381	14.639
FULL-TIME FOREIGN STUDENTS	(8)										1.002
FULL-TIME FIRST-YEAR STUDENTS	(9)										8.126
FULL-TIME FIRST-YEAR WOMEN	(10)										4.856

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	14.059
PART-TIME WOMEN	(2)	8.197

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	978	48	328	955	15.884	8.504	26.697
PART-TIME STUDENTS	452	45	78	276	7.427	5.781	14.059

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES							
		SOURCE OF SUPPORT						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	86	145	142	100	473	54	157	630
WOMEN	(2)	32	58	57	35	182	14	57	239

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-8. SUMMARY OF RESPONSES FROM ALL SOCIAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 1588

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	30	82	114	212	719	3.256	1.213	527		6.153
GRADUATE TRAINEESHIPS	(2)	8	308	584	24	360	1.051	40	119		2.494
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	14	132	76	209	873	3.795	46	328		5.473
GRADUATE TEACHING ASSISTANTSHIPS	(4)		1	2	6	71	9.588		63		9.731
OTHER TYPES OF SUPPORT	(5)	214	19	43	13	624	2.452	1.179	885	26.294	31.723
FULL-TIME TOTAL	(6)	266	542	819	464	2.647	20.142	2.478	1.922	26.294	55.274
FULL-TIME WOMEN	(7)	37	319	585	177	1.024	8.169	505	806	12.408	24.030
FULL-TIME FOREIGN STUDENTS	(8)										10.727
FULL-TIME FIRST-YEAR STUDENTS	(9)										20.065
FULL-TIME FIRST-YEAR WOMEN	(10)										9.616

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	35.534
PART-TIME WOMEN	(2)	15.973

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	2.753	236	982	1.418	30.499	19.686	55.574
PART-TIME STUDENTS	2.271	82	538	1.356	18.476	12.811	35.534

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES							
		SOURCE OF SUPPORT						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	64	63	53	153	333	123	224	557
WOMEN	(2)	17	31	16	44	108	25	42	150

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 8493

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITU-TIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	178	727	303	1.234	1.659	9.419	3.544	3.172		20.236
GRADUATE TRAINEESHIPS	(2)	81	4.768	5.632	135	2.014	3.666	271	847		17.414
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	3.263	5.377	605	7.562	12.077	16.844	603	5.663		51.994
GRADUATE TEACHING ASSISTANTSHIPS	(4)		74	42	58	375	52.824		385		53.758
OTHER TYPES OF SUPPORT	(5)	2.086	229	229	67	2.069	24.688	4.113	3.678	70.968	31.127
FULL-TIME TOTAL	(6)	5.608	11.175	6.811	9.056	18.194	90.441	8.531	13.745	70.968	234.529
FULL-TIME WOMEN	(7)	482	4.115	4.960	1.634	5.083	28.788	1.228	3.610	29.258	79.158
FULL-TIME FOREIGN STUDENTS	(8)										52.659
FULL-TIME FIRST-YEAR STUDENTS	(9)										76.648
FULL-TIME FIRST-YEAR WOMEN	(10)										29.438

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	105.674
PART-TIME WOMEN	(2)	39.214

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	5.351	470	4.568	4.181	132.101	87.858	234.529
PART-TIME STUDENTS	3.492	173	2.254	2.191	61.569	35.995	105.674

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOW-SHIPS	TRAINEE-SHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	2.205	2.631	9.755	5.064	19.655	7.298	3.552	23.207
WOMEN	(2)	529	725	1.767	1.071	4.092	980	747	4.839

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-2. SUMMARY OF RESPONSES FROM ALL ENGINEERING DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 1054

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITU-TIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	67	7	24	155	359	1.387	824	1.212		4.035
GRADUATE TRAINEESHIPS	(2)	31	129	66	11	123	405	42	178		987
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	1.897	275	43	2.129	4.203	3.351	124	2.454		14.476
GRADUATE TEACHING ASSISTANTSHIPS	(4)		2	0	30	67	8.079		107		8.288
OTHER TYPES OF SUPPORT	(5)	1.083	15	7	23	294	1.103	1.143	739	13.175	17.582
FULL-TIME TOTAL	(6)	3.078	431	140	2.348	5.046	14.325	2.133	4.690	13.175	45.369
FULL-TIME WOMEN	(7)	135	63	47	181	472	1.512	110	502	1.750	4.772
FULL-TIME FOREIGN STUDENTS	(8)										19.343
FULL-TIME FIRST-YEAR STUDENTS	(9)										16.591
FULL-TIME FIRST-YEAR WOMEN	(10)										2.075

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	31.620
PART-TIME WOMEN	(2)	2.131

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	406	67	1.058	470	18.096	25.269	45.366
PART-TIME STUDENTS	478	44	942	417	18.709	11.030	31.620

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOW-SHIPS	TRAINEE-SHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	26	49	672	284	1.031	699	506	1.537
WOMEN	(2)	1	4	51	23	79	42	33	112

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-3. SUMMARY OF RESPONSES FROM ALL PHYSICAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 523

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	16	21	2	223	88	882	194	384		1.810
GRADUATE TRAINEESHIPS	(2)	0	95	0	29	29	256	15	57		481
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	651	1.290	101	2.765	2.423	734	28	502		8.494
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	6	42	9.852		18		9.918
OTHER TYPES OF SUPPORT	(5)	129	2	4	4	20	202	127	80	1.363	1.931
FULL-TIME TOTAL	(6)	796	1.408	107	3.027	2.602	11.926	364	1.041	1.363	22.634
FULL-TIME WOMEN	(7)	73	301	19	419	330	2.237	49	180	236	3.844
FULL-TIME FOREIGN STUDENTS	(8)										6.056
FULL-TIME FIRST-YEAR STUDENTS	(9)										2.843
FULL-TIME FIRST-YEAR WOMEN	(10)										1.207

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	3.174
PART-TIME WOMEN	(2)	742

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	271	15	466	319	13.114	8.449	22.634
PART-TIME STUDENTS	71	1	113	40	1.897	1.052	3.174

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	193	36	3.567	656	4.452	2.351	619	5.071
WOMEN	(2)	25	5	382	62	474	176	85	559

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-4. SUMMARY OF RESPONSES FROM ALL ENVIRONMENTAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 284

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	0	1	12	69	139	331	95	160		807
GRADUATE TRAINEESHIPS	(2)	3	0	10	11	46	98	34	22		224
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	183	15	16	1.109	1.016	664	19	347		3.369
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	2	12	2.452		29		2.495
OTHER TYPES OF SUPPORT	(5)	118	1	0	6	52	321	218	149	2.444	3.352
FULL-TIME TOTAL	(6)	304	17	38	1.197	1.308	3.866	366	707	2.444	10.247
FULL-TIME WOMEN	(7)	45	6	15	282	312	995	37	158	547	2.397
FULL-TIME FOREIGN STUDENTS	(8)										1.440
FULL-TIME FIRST-YEAR STUDENTS	(9)										3.149
FULL-TIME FIRST-YEAR WOMEN	(10)										847

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	2.396
PART-TIME WOMEN	(2)	623

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	54	10	91	124	6.637	3.331	10.247
PART-TIME STUDENTS	19	5	15	20	1.639	698	2.396

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	17	0	272	50	339	123	142	481
WOMEN	(2)	2	0	24	7	33	9	12	45

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-5. SUMMARY OF RESPONSES FROM ALL MATH/COMPUTER SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 454

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITU-TIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	8	0	1	101	21	445	297	156		1.029
GRADUATE TRAINEESHIPS	(2)	0	11	4	10	3	164	6	26		424
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	360	48	8	480	149	593	0	147		1.785
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	3	37	7.199		39		7.278
OTHER TYPES OF SUPPORT	(5)	360	9	0	9	96	240	206	263	4.525	5.808
FULL-TIME TOTAL	(6)	728	68	13	603	306	8.741	509	631	4.525	16.124
FULL-TIME WOMEN	(7)	53	6	6	91	59	2.170	76	125	1.233	3.819
FULL-TIME FOREIGN STUDENTS	(8)										4.720
FULL-TIME FIRST-YEAR STUDENTS	(9)										2.718
FULL-TIME FIRST-YEAR WOMEN	(10)										1.597

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	10.936
PART-TIME WOMEN	(2)	3.121

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	179	6	428	195	7.722	7.594	16.124
PART-TIME STUDENTS	231	3	392	81	5.788	4.441	10.936

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOW-SHIPS	TRAINEE-SHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	25	4	55	63	147	77	169	316
WOMEN	(2)	7	1	5	6	19	6	6	25

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-6. SUMMARY OF RESPONSES FROM ALL LIFE SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 4619

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITU-TIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	39	550	84	371	294	2.356	945	606		5.245
GRADUATE TRAINEESHIPS	(2)	25	3.757	4.489	49	1.359	1.226	130	219		11.254
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	70	3.303	196	741	3.114	6.454	386	1.711		15.975
GRADUATE TEACHING ASSISTANTSHIPS	(4)		63	39	10	125	11.385		98		11.720
OTHER TYPES OF SUPPORT	(5)	173	173	174	14	674	2.039	1.247	808	18.021	23.323
FULL-TIME TOTAL	(6)	307	7.846	4.982	1.185	5.566	23.460	2.708	3.442	18.021	67.517
FULL-TIME WOMEN	(7)	97	2.970	3.893	371	2.514	9.430	428	1.207	10.045	30.955
FULL-TIME FOREIGN STUDENTS	(8)										9.028
FULL-TIME FIRST-YEAR STUDENTS	(9)										21.854
FULL-TIME FIRST-YEAR WOMEN	(10)										11.822

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	23.689
PART-TIME WOMEN	(2)	15.547

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	1.263	121	1.316	922	44.764	19.131	67.517
PART-TIME STUDENTS	695	31	316	314	15.332	7.001	23.689

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOW-SHIPS	TRAINEE-SHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	1.794	2.334	4.994	3.759	12.881	3.871	1.738	14.619
WOMEN	(2)	445	626	1.232	895	3.198	708	514	3.712

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-7. SUMMARY OF RESPONSES FROM ALL PSYCHOLOGY DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 329

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
MECHANISMS OF SUPPORT											
GRADUATE FELLOWSHIPS	(1)	18	66	66	103	70	818	42	127		1,310
GRADUATE TRAINEESHIPS	(2)	14	502	498	3	128	476	6	233		1,860
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	88	314	169	132	315	1,452	4	183		2,657
GRADUATE TEACHING ASSISTANTSHIPS	(4)		5	1	1	32	4,516		32		4,587
OTHER TYPES OF SUPPORT	(5)	19	10	1	4	332	1,333	23	837	8,497	11,056
FULL-TIME TOTAL	(6)	139	897	735	243	877	8,595	75	1,412	8,497	21,470
FULL-TIME WOMEN	(7)	43	472	410	119	429	4,515	41	676	4,619	11,324
FULL-TIME FOREIGN STUDENTS	(8)										831
FULL-TIME FIRST-YEAR STUDENTS	(9)										5,553
FULL-TIME FIRST-YEAR WOMEN	(10)										3,247

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	7,487
PART-TIME WOMEN	(2)	4,183

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	784	33	291	875	12,940	6,547	21,470
PART-TIME STUDENTS	248	28	43	191	3,938	3,039	7,487

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	86	145	142	100	473	54	156	629
WOMEN	(2)	32	58	57	35	182	14	57	239

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-8. SUMMARY OF RESPONSES FROM ALL SOCIAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 1230

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
MECHANISMS OF SUPPORT											
GRADUATE FELLOWSHIPS	(1)	30	82	114	212	688	3,200	1,147	527		6,000
GRADUATE TRAINEESHIPS	(2)	8	274	565	22	326	1,041	38	112		2,386
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	14	132	72	206	857	3,596	42	319		5,238
GRADUATE TEACHING ASSISTANTSHIPS	(4)		1	2	6	60	9,341		62		9,472
OTHER TYPES OF SUPPORT	(5)	204	19	43	7	558	2,250	1,149	802	22,943	28,075
FULL-TIME TOTAL	(6)	256	508	796	453	2,489	19,528	2,376	1,822	22,943	51,171
FULL-TIME WOMEN	(7)	36	297	570	171	967	7,929	487	762	10,828	22,047
FULL-TIME FOREIGN STUDENTS	(8)										10,211
FULL-TIME FIRST-YEAR STUDENTS	(9)										17,940
FULL-TIME FIRST-YEAR WOMEN	(10)										8,643

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	26,372
PART-TIME WOMEN	(2)	11,867

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	2,394	218	918	1,276	28,828	17,537	51,171
PART-TIME STUDENTS	1,750	61	433	1,128	14,266	8,734	26,372

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	64	63	53	152	332	123	222	554
WOMEN	(2)	17	31	16	43	107	25	40	147

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-9. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 6557

5. FULL-TIME GRADUATE STUDENTS — MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
GRADUATE FELLOWSHIPS	(1)	154	645	242	1.209	1.397	8.627	3.210	2.977		18.561
GRADUATE TRAINEESHIPS	(2)	71	4.423	3.415	106	1.441	3.200	237	742		13.635
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	3.187	5.264	564	7.406	11.431	14.584	582	5.339		48.357
GRADUATE TEACHING ASSISTANTSHIPS	(4)		69	33	55	335	46.661		333		47.486
OTHER TYPES OF SUPPORT	(5)	1.525	210	164	66	1.566	6.066	3.632	2.942	53.758	69.929
FULL-TIME TOTAL	(6)	4.937	10.611	4.418	8.842	16.170	79.138	7.761	12.333	53.758	197.968
FULL-TIME WOMEN	(7)	401	3.746	2.934	1.582	4.218	23.922	1.100	3.110	20.143	61.156
FULL-TIME FOREIGN STUDENTS	(8)										47.776
FULL-TIME FIRST-YEAR STUDENTS	(9)										60.495
FULL-TIME FIRST-YEAR WOMEN	(10)										20.991

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	68.558
PART-TIME WOMEN	(2)	22.748

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	4.083	369	3.797	2.928	111.032	75.759	197.968
PART-TIME STUDENTS	1.940	91	1.628	1.219	39.146	24.534	68.558

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	2.142	2.599	9.595	4.916	19.252	7.131	3.510	22.762
WOMEN	(2)	518	716	1.739	1.054	4.027	959	744	4.771

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-10. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL ENGINEERING DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 791

5. FULL-TIME GRADUATE STUDENTS — MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
GRADUATE FELLOWSHIPS	(1)	61	5	24	154	313	1.355	777	1.170		3.859
GRADUATE TRAINEESHIPS	(2)	31	129	61	11	105	394	38	175		944
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	1.847	265	42	2.076	4.003	3.032	119	2.337		13.721
GRADUATE TEACHING ASSISTANTSHIPS	(4)		2	0	29	61	7.323		93		7.508
OTHER TYPES OF SUPPORT	(5)	943	10	7	23	248	898	1.025	568	11.388	15.110
FULL-TIME TOTAL	(6)	2.882	411	134	2.293	4.730	13.002	1.959	4.343	11.388	41.142
FULL-TIME WOMEN	(7)	127	57	46	175	443	1.319	98	477	1.356	4.098
FULL-TIME FOREIGN STUDENTS	(8)										17.862
FULL-TIME FIRST-YEAR STUDENTS	(9)										14.782
FULL-TIME FIRST-YEAR WOMEN	(10)										1.772

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	23.442
PART-TIME WOMEN	(2)	2.236

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN ALASKAN (B)	ASIAN PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	342	64	941	398	16.169	23.228	41.142
PART-TIME STUDENTS	320	19	741	264	13.747	8.351	23.442

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	24	39	651	278	992	681	501	1.493
WOMEN	(2)	1	2	46	23	72	39	32	104

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-11. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL PHYSICAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 397

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	13	21	2	220	86	866	192	379		1,779
GRADUATE TRAINEESHIPS	(2)	0	92	0	20	29	245	15	52		453
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	645	1,269	100	2,747	2,407	695	28	479		8,370
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	5	40	9,341		16		9,402
OTHER TYPES OF SUPPORT	(5)	129	2	0	4	19	196	121	80	1,261	1,812
FULL-TIME TOTAL	(6)	787	1,384	102	2,996	2,581	11,343	356	1,006	1,261	21,816
FULL-TIME WOMEN	(7)	69	294	17	416	328	2,113	49	172	209	3,667
FULL-TIME FOREIGN STUDENTS	(8)										5,617
FULL-TIME FIRST-YEAR STUDENTS	(9)										5,541
FULL-TIME FIRST-YEAR WOMEN	(10)										1,134

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	2,487
PART-TIME WOMEN	(2)	561

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	258	15	452	274	12,736	8,081	21,816
PART-TIME STUDENTS	52	0	87	33	1,455	860	2,487

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	187	36	3,502	634	4,359	2,280	611	4,970
WOMEN	(2)	23	5	374	59	461	168	84	545

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-12. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL ENVIRONMENTAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 204

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	0	1	11	67	135	309	85	145		753
GRADUATE TRAINEESHIPS	(2)	3	0	10	11	45	94	34	22		219
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	181	15	16	1,072	926	583	19	315		3,127
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	2	12	1,910		14		1,938
OTHER TYPES OF SUPPORT	(5)	118	1	0	6	91	247	206	126	1,891	2,686
FULL-TIME TOTAL	(6)	302	17	37	1,158	1,209	3,143	344	622	1,891	8,723
FULL-TIME WOMEN	(7)	45	6	15	271	290	807	34	142	456	2,066
FULL-TIME FOREIGN STUDENTS	(8)										1,340
FULL-TIME FIRST-YEAR STUDENTS	(9)										2,537
FULL-TIME FIRST-YEAR WOMEN	(10)										679

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	1,912
PART-TIME WOMEN	(2)	483

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	46	8	86	103	5,700	2,780	8,723
PART-TIME STUDENTS	14	5	14	18	1,315	546	1,912

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOW-SHIPS	TRAINEE-SHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	17	0	272	49	338	122	140	478
WOMEN	(2)	2	0	24	7	33	9	12	45

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-13. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL MATH/COMPUTER SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 298

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	7	0	1	98	21	419	290	147		983
GRADUATE TRAINEESHIPS	(2)	0	9	4	4	3	139	6	13		178
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	349	48	8	457	142	496	0	135		1,635
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	2	36	6,314		38		6,390
OTHER TYPES OF SUPPORT	(5)	192	9	0	8	81	278	175	234	3,387	4,364
FULL-TIME TOTAL	(6)	548	66	13	569	283	7,646	471	567	3,387	13,550
FULL-TIME WOMEN	(7)	47	5	6	82	53	1,818	73	111	880	3,075
FULL-TIME FOREIGN STUDENTS	(8)										4,888
FULL-TIME FIRST-YEAR STUDENTS	(9)										4,481
FULL-TIME FIRST-YEAR WOMEN	(10)										1,232

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	6,135
PART-TIME WOMEN	(2)	1,628

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	138	6	351	133	6,654	6,268	13,550
PART-TIME STUDENTS	124	1	258	47	3,575	2,130	6,135

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	25	4	55	59	143	73	169	312
WOMEN	(2)	7	1	5	6	19	6	6	25

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-14. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL LIFE SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 3906

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	27	510	61	356	269	2,176	851	552		4,802
GRADUATE TRAINEESHIPS	(2)	21	3,536	2,529	45	960	1,009	104	161		8,365
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	67	3,238	166	722	2,896	5,823	376	1,621		14,909
GRADUATE TEACHING ASSISTANTSHIPS	(4)		61	30	10	101	9,703		84		9,989
OTHER TYPES OF SUPPORT	(5)	95	160	113	14	378	1,543	1,123	557	12,321	16,304
FULL-TIME TOTAL	(6)	210	7,505	2,899	1,147	4,604	20,254	2,454	2,975	12,321	54,369
FULL-TIME WOMEN	(7)	55	2,743	2,092	355	1,959	7,746	364	953	6,294	22,561
FULL-TIME FOREIGN STUDENTS	(8)										8,099
FULL-TIME FIRST-YEAR STUDENTS	(9)										16,077
FULL-TIME FIRST-YEAR WOMEN	(10)										7,873

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	13,962
PART-TIME WOMEN	(2)	8,263

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	960	108	1,146	602	36,271	15,282	54,369
PART-TIME STUDENTS	357	21	239	152	8,573	4,620	13,962

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	1,741	2,313	4,924	3,649	12,627	3,803	1,712	14,339
WOMEN	(2)	437	620	1,219	882	3,158	700	513	3,671

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-15. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL PSYCHOLOGY DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 249

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	18	66	65	103	67	798	40	126		1,283
GRADUATE TRAINEESHIPS	(2)	14	497	496	3	115	440	6	229		1,800
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	86	300	167	130	310	1,266	4	182		2,445
GRADUATE TEACHING ASSISTANTSHIPS	(4)		5	1	1	32	4,089		31		4,159
OTHER TYPES OF SUPPORT	(5)	15	10	1	4	324	1,215	23	801	7,614	10,007
FULL-TIME TOTAL	(6)	133	878	730	241	848	7,808	73	1,369	7,614	19,694
FULL-TIME WOMEN	(7)	43	467	407	119	415	4,023	41	654	4,079	10,248
FULL-TIME FOREIGN STUDENTS	(8)										787
FULL-TIME FIRST-YEAR STUDENTS	(9)										4,756
FULL-TIME FIRST-YEAR WOMEN	(10)										2,751

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	5,928
PART-TIME WOMEN	(2)	3,232

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	748	30	277	700	11,903	6,036	19,694
PART-TIME STUDENTS	208	3	28	152	2,957	2,580	5,928

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	86	145	141	100	472	54	156	628
WOMEN	(2)	32	58	56	35	181	14	57	238

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-16. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL SOCIAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 712

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	28	42	78	211	506	2,704	1,075	458		5,102
GRADUATE TRAINEESHIPS	(2)	2	160	315	12	184	879	34	90		1,676
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	12	129	65	202	747	2,659	36	270		4,150
GRADUATE TEACHING ASSISTANTSHIPS	(4)		1	2	6	53	7,961		57		8,100
OTHER TYPES OF SUPPORT	(5)	33	18	43	7	425	1,687	959	576	15,896	19,646
FULL-TIME TOTAL	(6)	75	350	503	438	1,915	15,942	2,104	1,451	15,896	38,674
FULL-TIME WOMEN	(7)	15	174	351	164	730	6,096	441	601	6,869	15,441
FULL-TIME FOREIGN STUDENTS	(8)										8,983
FULL-TIME FIRST-YEAR STUDENTS	(9)										12,321
FULL-TIME FIRST-YEAR WOMEN	(10)										5,550

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	14,692
PART-TIME WOMEN	(2)	6,345

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	1,591	138	544	718	21,599	14,084	38,674
PART-TIME STUDENTS	865	42	261	553	7,524	5,447	14,692

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	62	62	50	147	321	118	221	542
WOMEN	(2)	16	30	15	42	103	23	40	143

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-17. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 1936

5. FULL-TIME GRADUATE STUDENTS — MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
GRADUATE FELLOWSHIPS	(1)	24	82	61	25	262	792	234	195		1.675
GRADUATE TRAINEESHIPS	(2)	10	345	2.217	29	573	466	34	105		3.779
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	76	113	41	156	648	2.260	21	324		3.637
GRADUATE TEACHING ASSISTANTSHIPS	(4)		2	6	3	40	6.163		52		6.212
OTHER TYPES OF SUPPORT	(5)	561	19	65	1	503	1.622	481	736	17.210	21.198
FULL-TIME TOTAL	(6)	671	564	2.393	214	2.024	11.303	770	1.412	17.210	36.561
FULL-TIME WOMEN	(7)	81	369	2.026	52	865	4.866	128	500	9.115	18.002
FULL-TIME FOREIGN STUDENTS	(8)										4.883
FULL-TIME FIRST-YEAR STUDENTS	(9)										16.153
FULL-TIME FIRST-YEAR WOMEN	(10)										8.447

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	37.116
PART-TIME WOMEN	(2)	16.466

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	1.268	101	771	1.253	21.069	12.099	36.561
PART-TIME STUDENTS	1.552	82	626	972	22.423	11.461	37.116

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	63	32	160	148	403	167	42	445
WOMEN	(2)	11	9	28	17	65	21	3	68

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-18. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL ENGINEERING DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 263

5. FULL-TIME GRADUATE STUDENTS — MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
GRADUATE FELLOWSHIPS	(1)	6	2	0	1	46	32	47	42		176
GRADUATE TRAINEESHIPS	(2)	0	0	5	0	18	11	4	3		41
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	50	10	1	53	200	319	5	117		755
GRADUATE TEACHING ASSISTANTSHIPS	(4)		3	0	1	6	756		14		780
OTHER TYPES OF SUPPORT	(5)	140	5	0	0	46	205	118	171	1.787	2.472
FULL-TIME TOTAL	(6)	196	20	6	55	316	1.323	174	347	1.787	4.224
FULL-TIME WOMEN	(7)	8	6	1	6	29	193	12	25	394	674
FULL-TIME FOREIGN STUDENTS	(8)										1.481
FULL-TIME FIRST-YEAR STUDENTS	(9)										1.809
FULL-TIME FIRST-YEAR WOMEN	(10)										303

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	8.178
PART-TIME WOMEN	(2)	895

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	64	3	117	72	1.927	2.041	4.224
PART-TIME STUDENTS	158	25	201	153	4.962	2.679	8.178

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	2	10	21	6	39	18	5	44
WOMEN	(2)	0	2	5	0	7	3	1	8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-19. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL PHYSICAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 126

5. FULL-TIME GRADUATE STUDENTS — STUDENTS RECEIVING FINANCIAL ASSISTANCE		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	3	0	0	3	2	16	2	[illegible]		31
GRADUATE TRAINEESHIPS	(2)	0	3	0	9	0	11	0	5		28
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	6	21	1	18	16	39	0	23		124
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	1	2	511		2		516
OTHER TYPES OF SUPPORT	(5)	0	0	4	0	1	6	6	0	102	119
FULL-TIME TOTAL	(6)	9	24	5	31	21	583	8	35	102	818
FULL-TIME WOMEN	(7)	4	7	2	3	2	124	0	8	27	177
FULL-TIME FOREIGN STUDENTS	(8)										239
FULL-TIME FIRST-YEAR STUDENTS	(9)										302
FULL-TIME FIRST-YEAR WOMEN	(10)										73

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	687
PART-TIME WOMEN	(2)	181

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	13	0	14	45	378	368	818
PART-TIME STUDENTS	19	1	26	7	442	192	687

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF — POSTDOCTORATES		SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	6	0	65	22	93	71	8	101
WOMEN	(2)	2	0	8	3	13	8	1	14

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-20. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL ENVIRONMENTAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 80

5. FULL-TIME GRADUATE STUDENTS — STUDENTS RECEIVING FINANCIAL ASSISTANCE		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	0	0	1	2	4	22	10	15		54
GRADUATE TRAINEESHIPS	(2)	0	0	0	0	1	4	0	0		5
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	2	0	0	37	90	81	0	32		242
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	0	542		15		557
OTHER TYPES OF SUPPORT	(5)	0	0	0	0	4	74	12	23	553	666
FULL-TIME TOTAL	(6)	2	0	1	39	99	723	22	85	553	1,524
FULL-TIME WOMEN	(7)	0	0	0	11	22	188	3	16	91	331
FULL-TIME FOREIGN STUDENTS	(8)										100
FULL-TIME FIRST-YEAR STUDENTS	(9)										612
FULL-TIME FIRST-YEAR WOMEN	(10)										168

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	484
PART-TIME WOMEN	(2)	140

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	8	2	5	21	937	551	1,524
PART-TIME STUDENTS	5	0	1	2	324	152	484

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF — POSTDOCTORATES		SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	0	0	0	1	1	1	2	3
WOMEN	(2)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-21. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL MATH/COMPUTER SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 156

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	1	0	0	3	0	26	7	9		46
GRADUATE TRAINEESHIPS	(2)	0	2	0	6	0	25	0	13		46
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	11	0	0	23	7	97	0	12		150
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	1	1	885		1		888
OTHER TYPES OF SUPPORT	(5)	168	0	0	1	15	62	31	29	1,138	1,444
FULL-TIME TOTAL	(6)	180	2	0	34	23	1,095	38	64	1,138	2,574
FULL-TIME WOMEN	(7)	6	1	0	9	6	352	3	14	353	744
FULL-TIME FOREIGN STUDENTS	(8)										832
FULL-TIME FIRST-YEAR STUDENTS	(9)										1,237
FULL-TIME FIRST-YEAR WOMEN	(10)										365

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	4,801
PART-TIME WOMEN	(2)	1,493

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	41	0	77	62	1,068	1,326	2,574
PART-TIME STUDENTS	107	2	134	34	2,213	2,311	4,801

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	0	0	0	4	4	4	0	4
WOMEN	(2)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-22. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL LIFE SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 713

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	12	40	23	15	25	180	94	54		443
GRADUATE TRAINEESHIPS	(2)	4	221	1,960	4	399	217	26	58		2,889
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	3	65	30	19	218	631	10	90		1,066
GRADUATE TEACHING ASSISTANTSHIPS	(4)		2	9	0	24	1,682		14		1,731
OTHER TYPES OF SUPPORT	(5)	78	13	61	0	296	496	124	251	5,700	7,019
FULL-TIME TOTAL	(6)	97	341	2,083	38	962	3,206	254	467	5,700	13,148
FULL-TIME WOMEN	(7)	42	227	1,801	16	555	1,684	64	254	3,751	8,394
FULL-TIME FOREIGN STUDENTS	(8)										959
FULL-TIME FIRST-YEAR STUDENTS	(9)										5,777
FULL-TIME FIRST-YEAR WOMEN	(10)										3,949

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	9,727
PART-TIME WOMEN	(2)	7,284

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	303	13	170	320	8,493	3,849	13,148
PART-TIME STUDENTS	338	10	77	162	6,759	2,381	9,727

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	53	21	70	110	254	68	26	280
WOMEN	(2)	8	6	13	13	40	8	1	41

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-23. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL PSYCHOLOGY DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 80

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	0	9	1	0	3	20	2	1		27
GRADUATE TRAINEESHIPS	(2)	0	5	2	0	13	36	0	4		60
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	2	14	2	2	5	186	0	1		212
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	0	427		1		428
OTHER TYPES OF SUPPORT	(5)	4	0	0	0	8	118	0	36	883	1,049
FULL-TIME TOTAL	(6)	6	19	5	2	29	787	2	43	883	1,776
FULL-TIME WOMEN	(7)	0	5	3	0	14	492	0	22	540	1,076
FULL-TIME FOREIGN STUDENTS	(8)										44
FULL-TIME FIRST-YEAR STUDENTS	(9)										797
FULL-TIME FIRST-YEAR WOMEN	(10)										496

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	1,559
PART-TIME WOMEN	(2)	951

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	36	3	14	175	1,037	511	1,776
PART-TIME STUDENTS	40	25	15	39	981	459	1,559

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	0	0	1	0	1	0	0	1
WOMEN	(2)	0	0	1	0	1	0	0	1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-24. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL SOCIAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 518

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	2	40	36	1	182	496	72	69		898
GRADUATE TRAINEESHIPS	(2)	6	114	250	10	142	162	4	22		710
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	2	3	7	4	110	907	6	49		1,088
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	7	1,360		5		1,372
OTHER TYPES OF SUPPORT	(5)	171	1	0	0	133	661	190	226	7,047	8,429
FULL-TIME TOTAL	(6)	181	158	293	15	574	3,586	272	371	7,047	12,497
FULL-TIME WOMEN	(7)	21	123	219	7	237	1,833	46	161	3,959	6,606
FULL-TIME FOREIGN STUDENTS	(8)										1,228
FULL-TIME FIRST-YEAR STUDENTS	(9)										5,619
FULL-TIME FIRST-YEAR WOMEN	(10)										3,093

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	11,680
PART-TIME WOMEN	(2)	5,522

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	803	80	374	558	7,229	3,453	12,497
PART-TIME STUDENTS	885	19	172	575	6,742	3,287	11,680

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	2	1	3	5	11	5	1	12
WOMEN	(2)	1	1	1	1	4	2	0	4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 1424

5. FULL-TIME GRADUATE STUDENTS — MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
GRADUATE FELLOWSHIPS	(1)	8	0	1	28	87	201	121	36		482
GRADUATE TRAINEESHIPS	(2)	0	87	204	10	84	107	3	20		515
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	17	63	4	24	156	831	10	75		1,180
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	3	89	2,116		33		2,241
OTHER TYPES OF SUPPORT	(5)	24	2	2	33	303	509	215	270	13,123	14,481
FULL-TIME TOTAL	(6)	49	152	211	98	719	3,764	349	434	13,123	18,899
FULL-TIME WOMEN	(7)	5	91	158	38	297	1,636	72	137	6,614	9,048
FULL-TIME FOREIGN STUDENTS	(8)										2,344
FULL-TIME FIRST-YEAR STUDENTS	(9)										8,554
FULL-TIME FIRST-YEAR WOMEN	(10)										4,363

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	32,932
PART-TIME WOMEN	(2)	15,041

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	937	45	332	375	8,398	8,812	18,899
PART-TIME STUDENTS	1,252	58	592	566	15,542	14,922	32,932

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF —		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	0	1	11	23	35	14	8	43
WOMEN	(2)	0	0	4	4	8	2	2	10

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-2. SUMMARY OF RESPONSES FROM ALL ENGINEERING DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 141

5. FULL-TIME GRADUATE STUDENTS — MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
GRADUATE FELLOWSHIPS	(1)	4	0	1	0	5	38	6	21		75
GRADUATE TRAINEESHIPS	(2)	0	0	3	0	0	2	0	10		15
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	12	0	0	2	11	52	0	10		87
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	0	123		5		128
OTHER TYPES OF SUPPORT	(5)	5	0	0	0	8	44	93	84	756	990
FULL-TIME TOTAL	(6)	21	0	4	2	24	259	99	130	756	1,295
FULL-TIME WOMEN	(7)	0	0	1	0	5	32	5	9	55	107
FULL-TIME FOREIGN STUDENTS	(8)										543
FULL-TIME FIRST-YEAR STUDENTS	(9)										466
FULL-TIME FIRST-YEAR WOMEN	(10)										39

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	4,696
PART-TIME WOMEN	(2)	452

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	25	0	50	8	308	904	1,295
PART-TIME STUDENTS	68	1	175	58	1,593	2,801	4,696

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF —		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	0	0	1	0	1	0	3	4
WOMEN	(2)	0	0	1	0	1	0	0	1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-3. SUMMARY OF RESPONSES FROM ALL PHYSICAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 154

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
MECHANISMS OF SUPPORT											
GRADUATE FELLOWSHIPS	(1)	0	0	0	4	9	10	6	12		41
GRADUATE TRAINEESHIPS	(2)	0	15	0	0	1	7	0	1		24
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	0	9	0	3	5	59	0	7		83
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	4	318		10		332
OTHER TYPES OF SUPPORT	(5)	0	0	0	0	7	21	3	16	193	240
FULL-TIME TOTAL	(6)	0	24	0	7	26	415	9	46	193	720
FULL-TIME WOMEN	(7)	0	14	0	2	10	109	2	13	42	192
FULL-TIME FOREIGN STUDENTS	(8)										193
FULL-TIME FIRST-YEAR STUDENTS	(9)										280
FULL-TIME FIRST-YEAR WOMEN	(10)										74

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	823
PART-TIME WOMEN	(2)	250

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	54	0	33	7	285	341	720
PART-TIME STUDENTS	36	3	25	9	403	347	823

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	0	1	4	10	15	10	1	16
WOMEN	(2)	0	0	0	2	2	2	0	2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-4. SUMMARY OF RESPONSES FROM ALL ENVIRONMENTAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 55

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
MECHANISMS OF SUPPORT											
GRADUATE FELLOWSHIPS	(1)	0	0	0	2	8	1	3	1		15
GRADUATE TRAINEESHIPS	(2)	0	0	0	0	1	9	0	0		10
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	0	3	0	4	25	12	0	19		63
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	1	0	111		0		112
OTHER TYPES OF SUPPORT	(5)	0	0	0	0	1	6	2	44	380	433
FULL-TIME TOTAL	(6)	0	3	0	7	35	139	5	64	380	633
FULL-TIME WOMEN	(7)	0	1	0	3	4	43	0	24	115	190
FULL-TIME FOREIGN STUDENTS	(8)										56
FULL-TIME FIRST-YEAR STUDENTS	(9)										275
FULL-TIME FIRST-YEAR WOMEN	(10)										85

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	823
PART-TIME WOMEN	(2)	222

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	18	1	1	10	324	279	633
PART-TIME STUDENTS	11	0	10	3	401	398	823

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	0	0	1	6	7	1	0	7
WOMEN	(2)	0	0	0	1	1	0	0	1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-5. SUMMARY OF RESPONSES FROM ALL MATH/COMPUTER SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 162

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	1	0	0	0	11	1	17	0		30
GRADUATE TRAINEESHIPS	(2)	0	0	0	0	0	10	0	0		10
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	0	0	0	3	0	53	0	0		56
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	4	239		1		244
OTHER TYPES OF SUPPORT	(5)	3	0	0	0	56	39	44	3	1,117	1,262
FULL-TIME TOTAL	(6)	4	0	0	3	71	342	61	4	1,117	1,602
FULL-TIME WOMEN	(7)	1	0	0	1	24	135	15	1	318	495
FULL-TIME FOREIGN STUDENTS	(8)										495
FULL-TIME FIRST-YEAR STUDENTS	(9)										654
FULL-TIME FIRST-YEAR WOMEN	(10)										212

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	3,600
PART-TIME WOMEN	(2)	1,237

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	52	2	80	20	460	988	1,602
PART-TIME STUDENTS	86	1	118	67	1,273	2,055	3,600

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	(E)	(F)	(G)	(H)
TOTAL	(1)	0	0	0	1	1	1	0	1
WOMEN	(2)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-6. SUMMARY OF RESPONSES FROM ALL LIFE SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 369

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	3	0	0	22	21	65	23	2		136
GRADUATE TRAINEESHIPS	(2)	0	13	182	8	45	35	1	2		286
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	5	48	0	6	94	241	6	30		430
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	2	44	696		16		758
OTHER TYPES OF SUPPORT	(5)	1	2	0	27	80	130	26	32	3,111	3,409
FULL-TIME TOTAL	(6)	9	63	182	65	284	1,167	56	82	3,111	5,019
FULL-TIME WOMEN	(7)	2	35	142	24	153	608	20	40	1,742	2,766
FULL-TIME FOREIGN STUDENTS	(8)										370
FULL-TIME FIRST-YEAR STUDENTS	(9)										2,181
FULL-TIME FIRST-YEAR WOMEN	(10)										1,371

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	7,256
PART-TIME WOMEN	(2)	4,760

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	235	9	67	108	2,406	2,194	5,019
PART-TIME STUDENTS	326	15	124	116	4,173	2,502	7,256

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	(E)	(F)	(G)	(H)
TOTAL	(1)	0	0	5	5	10	2	1	11
WOMEN	(2)	0	0	3	0	3	0	0	3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-7. SUMMARY OF RESPONSES FROM ALL PSYCHOLOGY DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 185

5. FULL-TIME GRADUATE STUDENTS — MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
GRADUATE FELLOWSHIPS	(1)	0	0	0	0	2	30	0	0		32
GRADUATE TRAINEESHIPS	(2)	0	25	0	0	3	34	0	0		62
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	0	3	0	3	5	215	0	0		226
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	26	382		0		408
OTHER TYPES OF SUPPORT	(5)	5	0	2	0	85	167	17	8	4,215	4,499
FULL-TIME TOTAL	(6)	5	28	2	3	121	828	17	8	4,215	5,227
FULL-TIME WOMEN	(7)	1	19	0	2	44	469	12	6	2,762	3,315
FULL-TIME FOREIGN STUDENTS	(8)										171
FULL-TIME FIRST-YEAR STUDENTS	(9)										2,573
FULL-TIME FIRST-YEAR WOMEN	(10)										1,609

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	6,572
PART-TIME WOMEN	(2)	4,014

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	194	15	37	80	2,944	1,957	5,227
PART-TIME STUDENTS	204	17	35	85	3,489	2,742	6,572

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	0	0	0	0	0	0	1	1
WOMEN	(2)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-8. SUMMARY OF RESPONSES FROM ALL SOCIAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 358

5. FULL-TIME GRADUATE STUDENTS — MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I) (J)
GRADUATE FELLOWSHIPS	(1)	0	0	0	0	31	56	66	0		153
GRADUATE TRAINEESHIPS	(2)	0	34	19	2	34	10	2	7		108
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	0	0	4	3	16	199	4	9		235
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	11	247		1		259
OTHER TYPES OF SUPPORT	(5)	10	0	0	6	66	102	30	83	3,351	3,648
FULL-TIME TOTAL	(6)	10	34	23	11	158	614	102	100	3,351	4,403
FULL-TIME WOMEN	(7)	1	22	15	6	57	240	18	44	1,580	1,983
FULL-TIME FOREIGN STUDENTS	(8)										516
FULL-TIME FIRST-YEAR STUDENTS	(9)										2,125
FULL-TIME FIRST-YEAR WOMEN	(10)										973

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	9,162
PART-TIME WOMEN	(2)	4,106

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	FOREIGN, OTHER OR UNKNOWN (F)	TOTAL (SUM OF A - F) (G)
FULL-TIME STUDENTS	359	18	64	142	1,671	2,149	4,403
PART-TIME STUDENTS	521	21	105	228	4,210	4,077	9,162

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A THRU D) (E)	OF THE TOTAL IN (E) NUMBER FOREIGN (F)	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL	(1)	0	0	0	1	1	0	2	3
WOMEN	(2)	0	0	0	1	1	0	2	3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL MEDICAL SCHOOLS, FALL 1981

NUMBER OF DEPARTMENTS: 3083

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	19	334	31	84	51	973	94	211		1.797
GRADUATE TRAINEESHIPS	(2)	17	1.815	1.432	25	492	635	25	77		4.518
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	9	1.405	51	63	160	987	15	149		2.839
GRADUATE TEACHING ASSISTANTSHIPS	(4)		43	15	0	27	1.525		33		1.643
OTHER TYPES OF SUPPORT	(5)	84	114	21	1	165	515	213	226	3.742	5.081
FULL-TIME TOTAL	(6)	129	3.711	1.550	173	895	4.635	347	696	3.742	15.878
FULL-TIME WOMEN	(7)	41	1.338	1.098	69	610	1.933	78	265	2.085	7.517
FULL-TIME FOREIGN STUDENTS	(8)										1.470
FULL-TIME FIRST-YEAR STUDENTS	(9)										5.247
FULL-TIME FIRST-YEAR WOMEN	(10)										2.853

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	3.968
PART-TIME WOMEN	(2)	2.526

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	332	29	376	160	10.230	4.751	15.878
PART-TIME STUDENTS	130	17	57	51	2.770	943	3.968

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	1.258	2.033	2.597	2.842	8.730	2.491	1.015	9.745
WOMEN	(2)	303	516	627	668	2.114	459	286	2.400

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-2. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT PUBLIC MEDICAL SCHOOLS, FALL 1981

NUMBER OF DEPARTMENTS: 1826

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	16	149	14	44	40	668	49	138		1.118
GRADUATE TRAINEESHIPS	(2)	7	831	1.086	5	424	287	20	32		2.692
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	6	933	42	44	96	773	12	97		2.004
GRADUATE TEACHING ASSISTANTSHIPS	(4)		29	15	0	20	1.133		27		1.224
OTHER TYPES OF SUPPORT	(5)	75	80	20	1	127	245	76	160	2.377	3.161
FULL-TIME TOTAL	(6)	104	2.022	1.178	94	707	3.106	157	454	2.377	10.199
FULL-TIME WOMEN	(7)	38	698	872	35	502	1.290	40	175	1.420	5.070
FULL-TIME FOREIGN STUDENTS	(8)										906
FULL-TIME FIRST-YEAR STUDENTS	(9)										3.407
FULL-TIME FIRST-YEAR WOMEN	(10)										1.942

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	2.509
PART-TIME WOMEN	(2)	1.663

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	161	26	242	105	6.608	3.057	10.199
PART-TIME STUDENTS	91	17	37	30	1.825	509	2.509

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FEDERAL							
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	632	882	1.354	1.218	4.086	1.168	578	4.664
WOMEN	(2)	148	224	321	257	950	204	148	1.098

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-3. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT PRIVATE MEDICAL SCHOOLS, FALL 1981

NUMBER OF DEPARTMENTS: 1257

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	3	185	17	40	11	305	45	73		679
GRADUATE TRAINEESHIPS	(2)	10	984	346	20	88	348	5	42		1,826
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	3	472	8	19	64	214	3	52		835
GRADUATE TEACHING ASSISTANTSHIPS	(4)		14	0	0	7	392		6		419
OTHER TYPES OF SUPPORT	(5)	9	34	1	0	38	270	137	66	1,365	1,920
FULL-TIME TOTAL	(6)	25	1,689	372	79	188	1,529	190	242	1,365	5,679
FULL-TIME WOMEN	(7)	3	640	226	34	108	643	38	90	665	2,447
FULL-TIME FOREIGN STUDENTS	(8)										564
FULL-TIME FIRST-YEAR STUDENTS	(9)										1,840
FULL-TIME FIRST-YEAR WOMEN	(10)										911

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	1,459
PART-TIME WOMEN	(2)	863

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	171	3	134	55	3,622	1,694	5,679
PART-TIME STUDENTS	39	0	20	21	945	434	1,459

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES							
		SOURCE OF SUPPORT						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	626	1,151	1,243	1,624	4,644	1,323	437	5,081
WOMEN	(2)	155	292	306	411	1,164	255	138	1,302

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-4. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL PUBLIC INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 6812

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE									
		FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
			HHS								
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	122	388	215	556	1,237	5,328	2,101	1,910		11,857
GRADUATE TRAINEESHIPS	(2)	47	2,725	4,030	69	1,660	2,200	184	558		11,473
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	2,063	3,913	495	5,066	9,481	14,461	523	4,359		40,361
GRADUATE TEACHING ASSISTANTSHIPS	(4)		54	36	24	238	43,496		337		44,185
OTHER TYPES OF SUPPORT	(5)	1,779	149	183	67	1,332	4,952	3,034	2,680	58,393	72,569
FULL-TIME TOTAL	(6)	4,011	7,229	4,959	5,782	13,948	70,437	5,842	9,844	58,393	180,445
FULL-TIME WOMEN	(7)	344	2,643	3,609	1,063	4,094	22,481	768	2,662	24,460	62,124
FULL-TIME FOREIGN STUDENTS	(8)										38,090
FULL-TIME FIRST-YEAR STUDENTS	(9)										60,215
FULL-TIME FIRST-YEAR WOMEN	(10)										23,668

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	81,413
PART-TIME WOMEN	(2)	33,853

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	4,058	417	3,594	3,306	105,333	63,737	180,445
PART-TIME STUDENTS	2,739	171	1,550	1,589	49,321	26,043	81,413

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES							
		SOURCE OF SUPPORT						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN		
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	1,081	1,243	5,994	2,507	10,825	4,161	2,014	12,839
WOMEN	(2)	259	342	1,043	470	2,114	518	399	2,513

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-5. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL PRIVATE INSTITUTIONS, FALL 1981

NUMBER OF DEPARTMENTS: 3105

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): HHS					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	64	339	89	706	509	4,292	1,564	1,298		8,861
GRADUATE TRAINEESHIPS	(2)	34	2,130	1,806	76	438	1,573	90	309		6,456
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	1,217	1,527	114	2,520	2,752	3,214	90	1,379		12,813
GRADUATE TEACHING ASSISTANTSHIPS	(4)		20	6	37	226	11,444		81		11,814
OTHER TYPES OF SUPPORT	(5)	331	82	48	33	1,040	3,245	1,294	1,268	25,698	33,039
FULL-TIME TOTAL	(6)	1,646	4,098	2,063	3,372	4,965	23,768	3,038	4,335	25,698	72,983
FULL-TIME WOMEN	(7)	143	1,563	1,509	609	1,286	7,943	532	1,085	11,412	26,082
FULL-TIME FOREIGN STUDENTS	(8)										16,913
FULL-TIME FIRST-YEAR STUDENTS	(9)										24,987
FULL-TIME FIRST-YEAR WOMEN	(10)										10,133

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	57,193
PART-TIME WOMEN	(2)	20,402

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	2,230	98	1,306	1,250	35,166	32,933	72,983
PART-TIME STUDENTS	2,005	60	1,296	1,168	27,790	24,874	57,193

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	1,124	1,389	3,772	2,580	8,865	3,151	1,546	10,411
WOMEN	(2)	270	383	728	605	1,986	464	350	2,336

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-6. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT HISTORICALLY BLACK COLLEGES, FALL 1981

NUMBER OF DEPARTMENTS: 167

5. FULL-TIME GRADUATE STUDENTS		STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): HHS					NON-FEDERAL SOURCES			SELF-SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A THRU I)
MECHANISMS OF SUPPORT		DEPT. OF DEFENSE	NATIONAL INST. OF HEALTH	OTHER HHS	NATIONAL SCIENCE FOUND.	OTHER FEDERAL SOURCES	INSTITUTIONAL SUPPORT	FOREIGN SOURCES	OTHER U.S. SOURCES		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
GRADUATE FELLOWSHIPS	(1)	1	21	2	26	45	115	14	19		243
GRADUATE TRAINEESHIPS	(2)	0	88	29	43	51	11	0	4		226
GRADUATE RESEARCH ASSISTANTSHIPS	(3)	16	66	8	28	97	114	7	21		357
GRADUATE TEACHING ASSISTANTSHIPS	(4)		0	0	0	6	293		6		305
OTHER TYPES OF SUPPORT	(5)	5	0	4	6	56	97	5	22	1,193	1,388
FULL-TIME TOTAL	(6)	22	175	43	103	255	630	26	72	1,193	2,519
FULL-TIME WOMEN	(7)	1	113	32	39	100	215	4	18	389	911
FULL-TIME FOREIGN STUDENTS	(8)										893
FULL-TIME FIRST-YEAR STUDENTS	(9)										768
FULL-TIME FIRST-YEAR WOMEN	(10)										355

6. PART-TIME GRADUATE STUDENTS		
PART-TIME TOTAL	(1)	1,040
PART-TIME WOMEN	(2)	492

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	FOREIGN, OTHER OR UNKNOWN	TOTAL (SUM OF A - F)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
FULL-TIME STUDENTS	999	3	53	12	89	1,363	2,519
PART-TIME STUDENTS	431	8	29	3	130	439	1,040

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF		POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL				TOTAL FOR ALL SOURCES (A THRU D)	OF THE TOTAL IN (E) NUMBER FOREIGN	OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
		FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS	NON-FEDERAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)	2	3	15	4	24	12	8	32
WOMEN	(2)	1	1	2	1	5	0	3	8

SOURCE: NATIONAL SCIENCE FOUNDATION

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